

*The*



# CHEMIST AND DRUGGIST

*Established 1859*

28 Essex Street, Strand, London, W.C.2

*Registered as a Newspaper*

No. 2969  
VOL. CXXVI

JANUARY 2, 1937

*Annual Subscription (with  
Diary) 20/- Single Copies 9d.*

## SAVORY & MOORE LTD

Have pleasure in announcing  
that as from

**JANUARY 1<sup>ST</sup>, 1937**

they have been appointed

**SOLE AGENTS**

in this country for the following Firms

**E. MERCK ——— DARMSTADT**

**E. R. SQUIBB & SONS ——— NEW YORK**

**ORIGINAL ICHTHYOL PRODUCTS ——— HAMBURG**

DISTRIBUTED BY

**W. MARTINDALE**

50 WIGMORE STREET, LONDON, W.1

PHONE: WELBECK 0171 (5 LINES)

GRAMS: MARTINDALE, CHEMIST, LONDON



WORTHY OF YOUR RECOMMENDATION!



PARKE, DAVIS & CO., 50, BEAK STREET, LONDON W.1.



# Advertised Everywhere

# Elasto

REGISTERED

## The Wonder Tablet

**For the Veins,  
Arteries & Heart**

DAY in, day out, year in and year out, the large space advertising for Elasto continues. People throughout the country are constantly reading about this new biological remedy for Varicose Veins, Bad Leg and other Circulatory Disorders.

### Show Elasto It Sells on Sight

Are *you* taking full advantage of this opportunity for *new* business created by this vigorous and consistent campaign? The public *will* have Elasto, so let them know *you* can supply. A reminder in your window will bring to your counter the customer we have already created. Attractive Show Material gladly sent free on request.

**THE NEW ERA TREATMENT CO., LTD.**  
[Dept. C.D.] Cecil House, Holborn Viaduct,  
London



5/- per Box  
(One Month's Supply)

45/- per Doz.  
(P.A.T.A.)

# One and Threepence Profit on every Sale!



# The Greatest Name in Home Medicines

# BEECHAMS

## Your Strongest SALES foundation

Sound publicity extending over almost a century has made BEECHAMS the greatest name in home medicines to-day . . . . universally accepted as synonymous with purity, safety and efficacy. Think what a tremendous market this means for YOU! No risk of dead stock. A quick turnover with generous profit, day in and day out. Send a post-card NOW for free display material—use it and prove for yourself that Beecham Products can be your greatest and safest source of profits.

- ★ *BEECHAMS PILLS*  
Brand
- ★ *BEECHAMS POWDERS*  
Brand
- ★ *BEECHAMS*  
Brand  
*LUNG SYRUP*
- ★ *LACTOPEPTINE*  
Brand



**BEECHAMS**  
S. T. HELENS

**PILLS LIMITED**  
★  
LANCASHIRE





*If, after reading this advertisement, you still think I am merely "telling the tale," go and buy your printing elsewhere and jolly good luck to you, but don't blame me if things don't work out as you would like them to do.*

I don't know whether you will agree with me, but I really do believe that most of the talk we hear these days about salesmanship and personality in selling, etc., is nothing but a lot of nonsense, and you know just as well as I do that it doesn't cut much ice with the man who knows his job. After all, lasting and successful business relationships are founded on ability, confidence and mutual trust—not on a lot of foolish sales patter. Besides, the proper place for fairies is in the kiddies' story book. We have found that if a customer likes us and we like him, and both of us know what we are talking about and what we are trying to accomplish between us, we can forget the frills and the "eyewash." The orders and the £ s. d. are necessary, of course, and we need them just as much as anyone else, but, as we prefer to live for our work instead of merely working for our living, we are cheerfully prepared to make some effort to fully *deserve* the business it is our pleasure to receive. We like to do a jolly good job of work for all our friends and give them exactly the same kind of loyal, efficient and enthusiastic service we like to receive ourselves, for we believe, as we always *will* believe, that the desire and the determination to render the best possible service we can is one of the finest things in the world, and that it is definitely the foundation of all progress, and the most reasonable price we are called upon to pay for success and happiness in life.

***for helpful printing see* WAIDE'S**



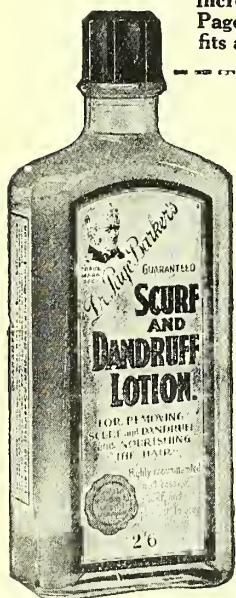
# Page-Barker's New Year Gift to YOU!

# 30% Worth of Goods FREE

**A Bumper Offer showing 136%  
Profit on a £2-14-0 Order**

## The Easiest Selling Specific you can stock

Nothing you can stock sells so readily as Page-Barker. Why? Because it is not only for the commonest of all scalp troubles, but it is backed by the strongest selling argument in the world—a cast-iron guarantee of satisfaction or money back without question. Here is your chance—a wonderful chance—to start increasing your Page-Barker profits at once.



Note the Improved Screw Cap

EVERY year the Chemist looks forward to that most generous gift—the Page-Barker Special Offer—the opportunity of large extra profit on a quick selling line. The reception given to last year's offer was so gratifying that we have decided to repeat it for 1937 without any alteration. **Briefly the offer is: With every order for three dozen Page-Barker Scurf Lotion WE WILL GIVE YOU ONE DOZEN FREE selling at 30/-.** In addition, you get the usual bonus of three 2/6 bottles.

Order Today from

**THOS. CHRISTY & CO. LTD.**  
4-12 Old Swan Lane, London, E.C.

## What this offer means to you

YOU PAY FOR	YOU SELL 51	
36 BOTTLES	BOTTLES FOR	YOUR PROFIT
£2 - 14 - 0	£6 - 7 - 6	£3 - 13 - 6

*This offer applies only to Great Britain and Northern Ireland, and definitely terminates Feb. 28*

**Dr Page-Barker's  
SCURF & DANDRUFF LOTION**

**2/6**



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QUALITY



PRODUCTS

## RHEUMATISM

Sufferers from Rheumatic Affections are legion. Response to treatment is often slow, but

TAB. ARTHRITONE  
(H. H. & CO.)

are regularly prescribed by the medical profession and often give definitely good results when other treatments have failed. Tab. Arthritone are indicated in Osteo and Rheumatoid Arthritis and all painful rheumatic conditions. Supplied in bulk for dispensing and prescribing.

4/6 per 100, 30/- per 1,000 net.

A reliable product with an excellent formula.

**HOUGH, HOSEASON & Co. LTD.**  
MANUFACTURING CHEMISTS

Bridge Street, MANCHESTER

'Phone: BLAckfriars 3895 6, 7435

'Grams: "Salicylate, Manchester."



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# When you tender for *Disinfectants*

REMEMBER that

**BURT, BOULTON & HAYWOOD LTD.** Managers to  
the **PRINCE REGENT TAR COMPANY, LTD.**

give you special terms for contracts.

Carbolic Disinfecting Fluids containing 3% to 80% Tar Acids.	Carbolic Disinfecting Fluids, Rideal Walker Co-efficients 2 to 20.
White Disinfecting Fluids—miscible in salt, fresh or brackish water, Co-efficients 10/12, 18/20, 20/22, 24/26.	Liquid Carbolic and Cresylic Acid, Dark 95/97% and Pale 97/99%.
Lysol B.P. Quality. Pine Disinfecting Fluids.	Sulphur Candles. Formaldehyde (Formalin) 40% Solution.
Pink Carbolic Disinfecting Powders containing 5% to 20% Tar Acids.	Formaldehyde (Formalin) Tablets. Liquid Soaps.
Carbolic Sheep Dips, approved by the Ministry of Agriculture under the Dips Scab order.	SOLUBLE Carbolic or Pine Blocks for road watering vans.
	Carbolic Weed Killer, etc.

**Tar Acids and Rideal Walker Co-efficiency guaranteed. May be sold by Chemists and Druggists under own name.**

**Special Disinfectant Fluids** approved by the Ministry of Agriculture under the "Diseases of Animals Acts." May be packed and sold by Chemists under own name.

SAMPLES AND PRICES ON APPLICATION TO

**PRINCE REGENT TAR COMPANY, LTD.**

(Managers : BURT, BOULTON & HAYWOOD, LTD.)

**BRETENHAM HOUSE, WELLINGTON STREET, STRAND, LONDON, W.C. 2**  
*Phone: Temple Bar 5801 (5 lines)      Telegrams: "Burboul, Rand, London."*





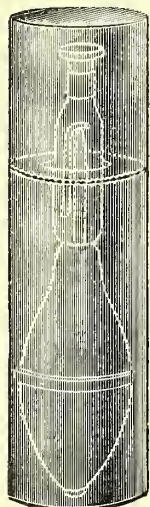
**T**HE makers of the world-famous Veno Products: VENOS Brand Lightning COUGH CURE, DR. CASSELLS brand TABLETS, GERMOLINE brand Aseptic Ointment and PHENSIC brand, the remarkable new influenza specific and tonic pain killer, wish all their trade friends the best of health, happiness and prosperity throughout 1937 and would like to express their thanks for such wonderful support during the past progressive year. Will you please write for new show material? Always at your Service!

**VENO DRUG CO. LTD.**  
**CHESTER RD., MANCHESTER, 16**



## From the "DEPENDABLE" SERIES of ATOMIZERS

(ENTIRELY BRITISH MANUFACTURE)

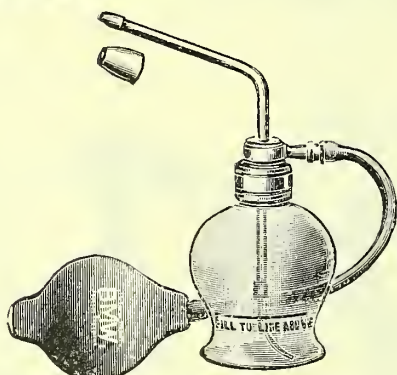


No. 40

A POCKET ATOMIZER  
IN STOUT CYLINDRICAL  
CARRYING CASE

EACH - 1/8  
DOZEN 19/-

SUITABLE FOR EITHER  
AQUEOUS, ALCOHOLIC  
OR  
LIGHT OILY SOLUTIONS



No. 8. Atomizer for Throat or Nose, for use with oil or water. Made with a solid metal screw mount, detachable metal nasal mount, and plug-in metal mount to bellows. Each 3/2  
Spare Glass Bottles with solid N.P. screw cap. Each 6d.

## TANNIC ACID SPRAY OUTFIT FOR BURNS

No. 13. Consisting of a 2-oz. Amber Bottle. Vulcanite Spray Mount, complete with Bellows. And 25 Tannic Acid Compound Tablets. Each 3/3  
(Special quotations for quantities with or without our name)

**BRITTON MALCOLM & WAYMARK LTD.**

**38 Southwark Bridge Road, S.E.1**

Phone: Waterloo 4874 (three lines)

# £100,000 A WEEK

## MARKET FOR YOUR GOODS

8/- a week—or £20 a year—is the estimated amount that the average Public spend on Medicines. With a circulation of 250,000 this would put the buying value of Readers of the

## Christian Herald

THE NATIONAL FAMILY RELIGIOUS WEEKLY

### AT £5,000,000 A YEAR

Keyed advertisements have remained in for 50 years, showing that advertisers who counted their results before going in a second or third time were satisfied that they received consistent cash return. One Full Page recently brought in £300 first week in cash.

A FEW OF THE MANY well-known Advertisers in the "Christian Herald": H. Samuel, Ltd. (Jewellers), Bovril, Borwick's Baking Powder, Cadbury's, Force, Foster Clark's Custard, Fry's Cocoa, Huntley and Palmer's, Ingersoll Watches, Mansion Polish, Oxo, Ovaltine, Phosferine, Prudential, Mothaks.

THE CHRISTIAN HERALD, 6 TUDOR STREET  
LONDON, E.C.4. TELEPHONE CENTRAL 3559

C.D.1

## OPENING A PHARMACY

We are pleased at any time to make arrangements from our Exeter Offices for opening orders.

To all those, however, who are near London, and will be in the City for the purchase of fittings, chemicals, drugs, stock, etc., we extend a hearty invitation to our London Office (29, Farringdon Street, E.C.4), where there is a fine assortment of samples, and where details of orders, large or small, can be discussed and settled.

Perhaps we may be permitted to add that as the best labels are worth while we supply them.

JAMES TOWNSEND & SONS.

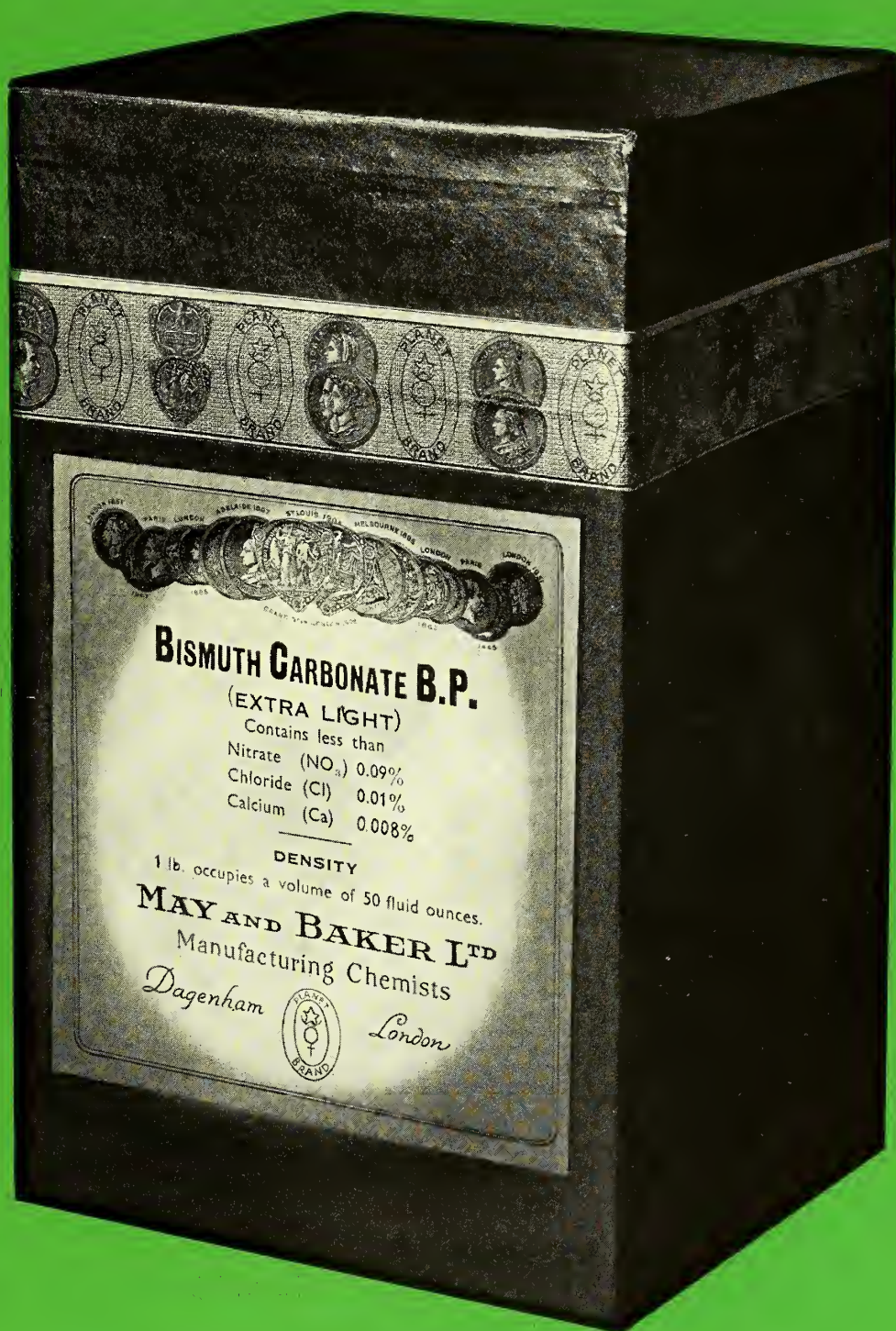
EXETER Trunk Calls  
3965.

LONDON Calls  
Central 8426.



# Dispense **BISMUTH MIXTURE**

For DIGESTIVE TROUBLES IN ADULTS AND CHILDREN



For guaranteed purity and uniform whiteness and bulk  
always specify :— **BISMUTH CARBONATE B.P.**  
**MAY & BAKER Ltd. Dagenham**



**BRITISH MADE CHEMICALS**

**MAY & BAKER L<sup>TD.</sup>**

TELEPHONE  
ILFORD  
3 0 6 0

**DAGENHAM**

**PHENOBARBITAL  
EPHEDRINE  
CHLOROFORM  
ETHER  
MERCURIALS  
IODIDES  
BROMIDES  
MANDELIC ACID  
COCAINE  
PHENOLPHTHALEIN  
CITRATES  
ROCHELLE SALT**



# CORONATION COUNTER SHOW

*We are ready to offer you a fine range of  
Coronation Goods which will attract,  
sell and repeat*

**HANDKERCHIEF PUFFS—BOWL PUFFS—VELOURS  
PADS — WASHING SQUARES — SPONGE BAGS—  
TRAVELLING COMPANIONS, ETC.**

Start your displays in the New Year—write now for a sample  
range giving details of the lines which interest you specially.

*If you cannot obtain supplies from your  
wholesaler write direct*

**184/192 Goswell Road, London, E.C.1**

**SOLPORT**  
BROTHERS LIMITED



**WATCH SALES SOAR!**

**WATCH YOUR STOCKS!**

New National Advertising Campaign  
to consolidate the success of **MORNING PRIDE**

"Morning Pride" has taken premier place in the shaving  
cream market. First in public favour "Morning Pride" is  
second to none in rapidly increasing sales.

Look to your stocks and be sure of your share of profits  
from this new wonder shaving cream.

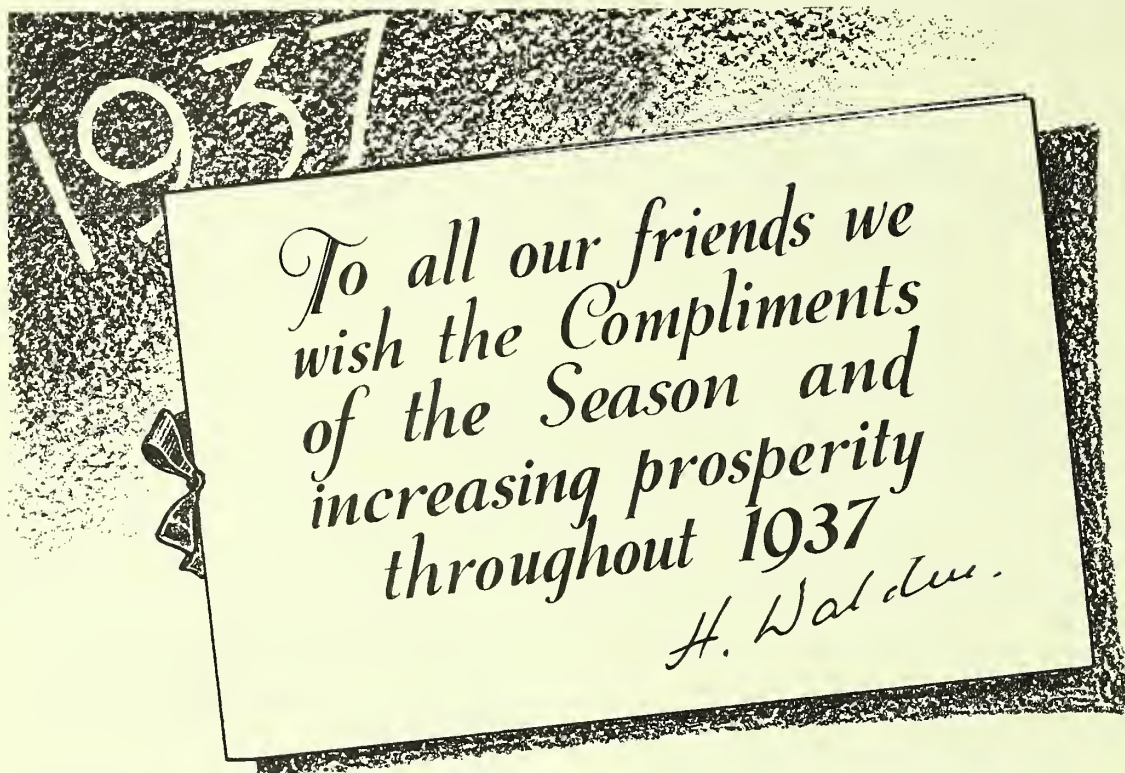
**MORNING PRIDE**  
REGD.

**THE RAZOR READY BRUSHLESS SHAVING CREAM**  
PRODUCT OF FAIRY DYES LTD., PHARMACEUTICAL DEPT.

*For particulars of attractive Initial Order terms write*

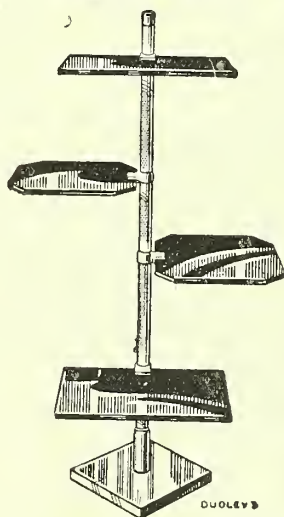
**SOLE DISTRIBUTORS · FASSETT & JOHNSON LTD**

**86 CLERKENWELL ROAD, LONDON, E.C.1**

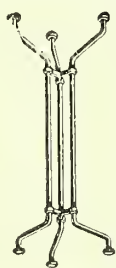


WALDEN & CO. (NUFIX) LTD., NUFIX WORKS, Rookery Way, The Hyde, London, N.W.9

## DISPLAY FITTINGS



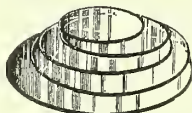
No. C.D.F. 5739. The latest Glass Rod Display Stands. The centre stem is a 24" Crystal Glass Rod mounted on heavy Chromium Plated Base—complete with 4 Black Glass Shelves.  
2' 7" x 7" } adjustable to  
2' 9" x 5" } any position.  
18/6 each Carriage Extra



Send for our fully illustrated List No. CD. 1695. Brimful of interest to you.

No. C.D.F. 5616  
Brown Bronze  
Tripods  
s. d.  
9" - 1 6 each  
12" - 1 9 "  
15" - 2 0 "  
18" - 2 3 "  
24" - 3 6 "

Chrome finish  
s. d.  
9" - 2 6 each  
12" - 3 0 "  
15" - 3 9 "  
18" - 4 6 "  
24" - 6 0 "



No. C.D.F. 1015  
New 1/2" Glass Ovals

s. d.  
11" x 5" - 1 3 each  
12" x 9" - 1 6 "  
14" x 10" - 1 9 "  
18" x 12" - 2 6 "

**DUDLEY & COMPANY LIMITED**  
453 Holloway Road, London, N.7  
City Showroom: 65 Fore Street, E.C.

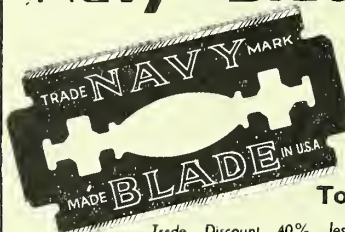
## TYNESIDE

THE IDEAL SITE FOR YOUR WORKS  
3,000,000 People on your Doorstep  
SITES IN RURAL SURROUNDINGS  
Every Facility Available

Write :—

TYNESIDE INDUSTRIAL DEVELOPMENT BOARD  
CARLIOL HOUSE, NEWCASTLE ON TYNE, 1

## 'Navy' Blue Blade



New process  
surgical BLUE  
steel blade suit-  
able for all safety  
razors.

To retail at 5 for 1/-

Trade Discount 40% less 2 1/2% monthly accounts.

**NAVY BLUE BLADE CO.** Condor House  
14 ST. PAUL'S CHURCHYARD · E.C.4

TELEPHONE · CITY · 7388

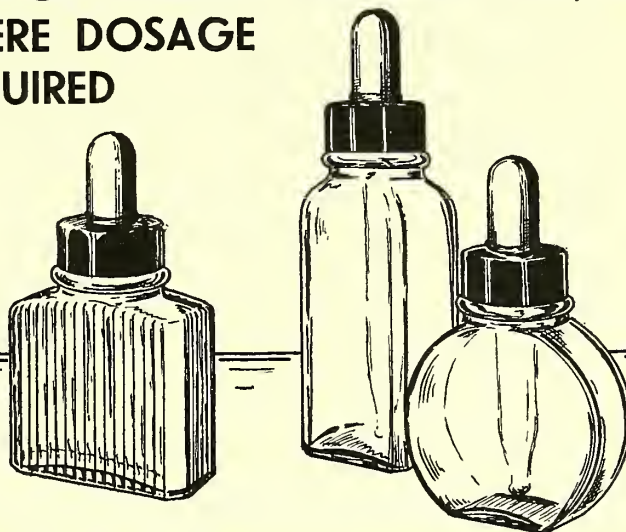


# PROVEN SUCCESSES

**I.B.C. PIPETTE BOTTLES FOR HALIBUT OIL AND EYE, NOSE AND EAR DROPS WHERE DOSAGE BY DROPPING IS REQUIRED**

SUPPLIED IN AMBER OR CLEAR GLASS, COMPLETE WITH RUBBER TEAT AND BAKELITE CAP AND GLASS ROD WITH BALL POINT. PROMPT DELIVERIES FROM STOCK.

WHOLESALE AND EXPORT ONLY



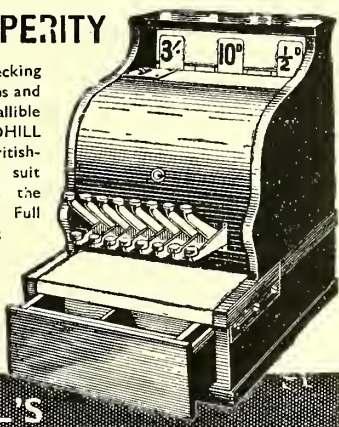
**THE INTERNATIONAL BOTTLE CO. LTD.**  
**48 FORE STREET, LONDON, E.C.2**

## ENSURE PROSPERITY

in 1937 by efficient cash checking methods. Modern conditions and better trade demand an infallible check such as the GLEDHILL "MONARCH" REGISTER. British-made in various styles to suit individual taste, it ensures the full benefit of your trading. Full details, catalogue etc., from:

**G.H.GLEDHILL & Sons Ltd.**

16 Trinity Works,  
**HALIFAX.**



**GLEDHILL'S**

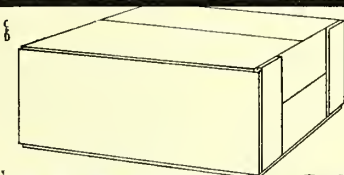
WE SUPPLY  
**DECORATED TINS**  
 FOR PACKING  
**OINTMENTS**

AND OTHER PRODUCTS

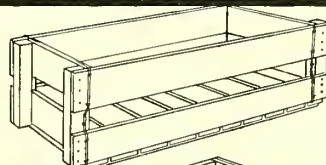
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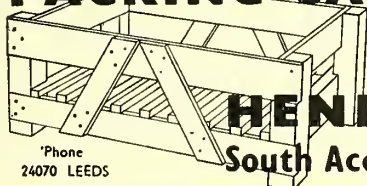
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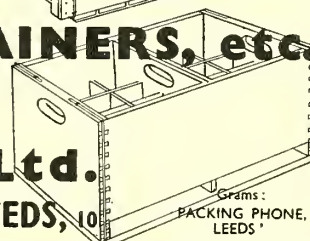


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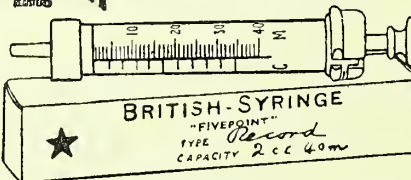
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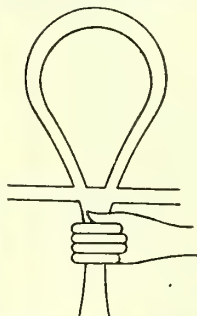
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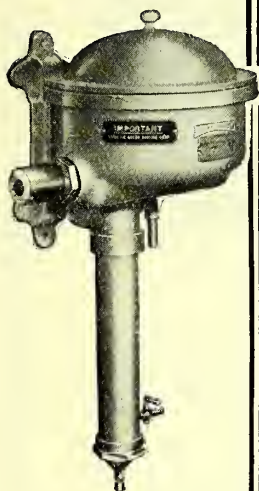
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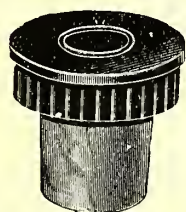
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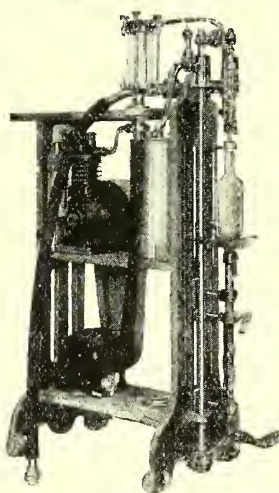
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## News of the Week

### Poison Bottles

There appears to be considerable uncertainty in many quarters as to whether the wording, such as "Poison" and/or "Not to be taken" should be embossed on the glass of the fluted bottle prescribed for use by the Poisons Rules. Some firms are insisting on unlettered bottles, while others are asking that the above words should be embossed on the glass. As this is causing complications in regard to the supply of fluted bottles, the matter has recently been discussed at a joint meeting of representatives of the Glass Manufacturers' Federation, the Pharmaceutical Society, the Wholesale Drug Trade Association and the Association of British Chemical Manufacturers and its Affiliated Associations. The Poisons Rules neither require nor prohibit the embossing of the words on the glass, so that either is permissible. As generally construed, the Rules make it necessary that the appropriate words be shown on the label even if embossed on the glass. Nothing is therefore to be gained, as far as labelling is concerned, by embossing. Further, as indicated above, bottles embossed with the words "Poison" and/or "Not to be taken" would not be suitable for all the purposes for which fluted bottles have to be used and unlettered bottles will therefore be required for the other cases. The meeting decided that, apart from the special lysol glass bottle, for which a design including the words "Not to be taken" embossed on the glass, has already been agreed between the makers and users of the bottles, the simplest and most economical procedure for all concerned would be to make all standard or stock fluted bottles with no lettering on them, so that they could be used for any purpose. The using Associations are recommending their members to adopt this procedure and to be prepared to accept mixed consignments of lettered and

unlettered bottles until the bottle makers are in a position to replace their existing lettered with unlettered moulds. It is anticipated that the complete change over to the manufacture of unlettered bottles will take from six months to a year, while a further period will be wanted to use up all the stocks of lettered bottles. The above decision applies only to standard or stock bottles and firms will still be free to make their own arrangements as regards any special designs of fluted bottle they may require.

### Optical Meetings

At the recent meeting of the Central Optical Council the following organisations were represented:—British Optical Association, Guild of British Consulting Opticians, Institute of Chemists-Opticians, Institute of Ophthalmic Opticians, National Association of Opticians, Scottish Association of Opticians. Mr. A. E. Turville was in the chair. A letter was read from the B.O.A. saying that the Council's past recommendations were being considered at its next meeting. The secretary reported that all the above organisations had now adopted or approved the minimum code of ethics. The I.O.O. furnished the Council with particulars regarding five members against whom they had taken disciplinary action. The chairman gave particulars regarding a proposed scheme of national propaganda. Mr. Barrs (I.C.O.) moved a resolution recommending that a Register be formed immediately of the members of the above organisations, without discrimination of title. The meeting was of the opinion that the profession should possess its own Register, and that the Central Optical Council was the body best suited for compiling this on behalf of the organisations. The recommendation was carried.



Mr. Barrs moved the following recommendation: "The Central Optical Council, formed in the interest of unity and equality among opticians, is of the opinion that no legislation shall be promoted until and after it has been submitted to and agreed by the Central Optical Council and the bodies comprising it." The recommendation was carried. A letter was read from the J.C.Q.O. notifying the Council of the withdrawal of its representative. A lengthy discussion ensued with reference to recent events, the actions of the I.O.O. and the chairman and secretary of the Central Optical Council. The chairman made a full statement. A vote of confidence in the chairman and secretary was moved by Mr. Veitch (S.A.O.). This was carried, one member abstaining and another member voting against. Mr. Barrs was appointed auditor to fill the vacancy created by the withdrawal of the J.C.Q.O.

The second regional conference of the Lancashire, Cheshire and North Wales optical practitioners will be held at the University of Manchester on January 13. The official opening by the Vice-Chancellor, Professor J. S. B. Stopford, M.D., F.R.S., will take place at 10 a.m. Afterwards there will be demonstrations of the Sciencetype visual test unit by J. Cole, F.B.O.A., F.S.M.C., the Ruka variator by W. B. Barker, F.B.O.A. (Hons.), the B. & L. Binocular Ophthalmoscope by F. R. Woodcock, F.B.O.A., and Focal-line Retinoscopy by C. R. Crofton, F.B.O.A., F.S.M.C. At the afternoon session there will be a lecture and demonstration on "Vision Under Fog Conditions" by T. M. Martin, M.Sc., and an exhibition of new optical instruments, anatomical specimens and so forth.

### Inquests

At Doncaster, recently, an inquiry was held concerning the death of Mr. George Johnson, pharmacist for thirteen years at the Royal Infirmary. Evidence showed that after a period of ill-health Mr. Johnson was found hanged in his bathroom. A verdict of "Suicide while of unsound mind" was recorded.

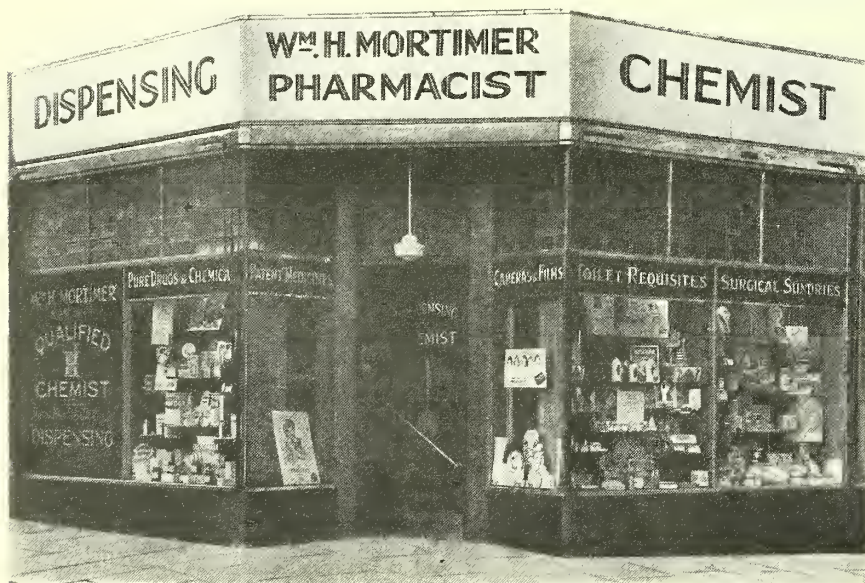
At a resumed inquest in St. Pancras, London, N.W., on December 29, it was shown that Mrs. Florence C. Howard, Oakfield Road, Hornsey, N., died not from the effects of taking oil of nutmeg, as suggested at the first hearing (*C. & D.*, December 19, p. 694), but from nitrobenzene poisoning. Dr. Roche Lynch, senior analyst to the Home Office, said that he received from Sir Bernard Spilsbury (who had made a *post-mortem* examination) a chemist's stock bottle, labelled "Ol. Myristica," a bottle labelled "Oil of Nutmeg," a cup and other articles. He found that the liquid contained in the stock bottle consisted almost entirely of nitrobenzene. In

addition to its characteristic odour it had a slight smell which suggested oil of nutmeg. It appeared probable that the bottle originally contained oil of nutmeg, and that when almost empty it had been filled with nitrobenzene. Nitrobenzene was a powerful poison; fifteen drops had been known to cause death, but recovery had taken place after much larger doses. Absorption would be quicker as the result of gin taken with the liquid. Nitrobenzene had been used for abortifacient purposes and, when taken in toxic doses, appeared to be fairly effective. There was, however, great risk in taking it. In his opinion the deceased died from acute poisoning by nitrobenzene. The Coroner: What do chemists have it for? Dr. Lynch said it was used in soaps, perfumes and, he believed, in boot polishes. Mr. H. Glyn-Jones, barrister (representing Dow Brothers, chemists): Oil of nutmeg is pharmaceutically used and has recognised doses?—Yes, up to about three minims. Mr. Glyn-Jones said one sought some possible explanation of how nitrobenzene got into the oil of nutmeg bottle. There might have been confusion on the part of the wholesalers between the abbreviations "Ol. Myrb." and "Ol. Myrst." Dr. Lynch agreed. The Coroner: What we really want is the real wholesaler. Mr. Glyn-Jones: If only we could find him. There has been an analysis on behalf of the chemist. The Coroner: It may well be that they have been supplied at some time or another with the wrong material and it has been put into the bottle in the ordinary course of business. The stock had been used to some extent without anything untoward happening. Mr. William Burgess Dow, chemist and druggist, said he was part-proprietor of the shop at Green Lanes where the purchase was made. The assistant there had been employed for twenty-five years. Witness could not say when the stock bottle was last filled. Invoices had been examined for three years, and he was unable to trace anything with regard to the nitrobenzene. The liquid was sent to him by some mistake which he could not account for. The Coroner: Have you any use for nitrobenzene?—We do not stock it. Replying to Mr. Glyn-Jones, Mr. Dow said that no proceedings had ever been taken against him for supplying the wrong article. His dispensing was tested from time to time and no fault had been found. Summing up, the coroner said that Mrs. Howard sought to end pregnancy and took what she thought was oil of nutmeg and gin. He recorded a verdict of "Death by misadventure."

### Exeter

The annual meeting of the Exeter and District Branch of the Pharmaceutical Society was held at Exeter on December 16, Mr. F. E. Battershill presiding. The officers elected were: *Chairman*, F. E. Battershill; *Vice-Chairman*, A. C. Milton; *Treasurer*, J. Harris; *Secretary*, F. Southerden; *Social Secretary*, A. C. Milton; *Committee*, W. R. B. Arnold, G. A. Clarke, F. Dyson, M. T. Foster, A. T. Hayward, J. W. Lake, I. R. Phillips, P. F. Rowsell and C. J. Symes.

At the annual meeting of the National Pharmaceutical Union (Devon Branch), held at Exeter on December 16, the following were elected: *Chairman*, A. J. Merrifield; *Vice-Chairman*, A. T. Hayward; *Treasurer*, W. R. B. Arnold; *Secretary*, A. C. Milton; *Committee*, F. E. Battershill, W. C. Bennett, G. A. Clarke, M. T. Foster, C. Huxtable, J. W. Lake, I. R. Phillips and P. F. Rowsell. The annual report and financial statement were adopted, and sums were voted to the Benevolent and Orphan funds of the Pharmaceutical Society. Mr. A. C. Milton gave an interesting account of the Conference of Delegates in October, and it was resolved: "That this meeting of the Devon Branch of the N.P.U. records its high appreciation of the work of the National Executive in the Chemists' Friends scheme; gratefully acknowledges the support of the growing number of manufacturers; and promises to do its utmost to ensure the full success of the



The new premises of Mr. W. H. Mortimer at the corner of Whitegate Drive, and St. Alban's Road, Blackpool. The shop is about four times as large as Mr. Mortimer's previous pharmacy at 119a Whitegate Drive.



scheme." It was also resolved to congratulate Mr. Linstead on his evidence before the Select Committee on Medicine Stamp Duty. Mr. J. W. Lake (the retiring chairman) was cordially thanked for his excellent service during two years.

### Liverpool

We have received from the Local Executive Committee of the British Pharmaceutical Conference, 1937, a portfolio of pictures from "The Liverpool Daily Post," with a calendar. The portfolio, measuring 9½ in. by 12 in., is a handsome production, and among the pages of topical interest is one showing the first meeting of the Liverpool Chamber of Commerce in its new building, with Mr. T. Edward Lescher presiding.

### London

The telephone number of Burgoyne, Burbidges & Co., Ltd., East Ham, London, E.6, has been changed to Grangewood 1414 (eight lines).

The joint firms of J. W. S. Simpson (Chemists), Ltd., and Lowthers of London, Ltd., manufacturing chemists, held their annual staff dinner at the Manchester Hotel on December 18. The staff presented Mr. Dundas Simpson (managing director) with a solid silver brush set, and his brother, Mr. J. W. Simpson, with a silver tankard.

Over 3,000 guests attended the golden jubilee ball of the Lamson Paragon Supply Co., Ltd., at the Empire Hall, Olympia, S.W.14, on December 19; 1,500 employees were brought by special trains from Upminster, Plaistow and Wanstead, and nearly four hundred by bus from Hendon and Edgware. During the evening Mr. J. M. Evans (managing director) and Lady Alan McLean (wife of the chairman of the company) presented gold watches and other gifts to thirty-five employees, including two directors, each of whom had completed not less than thirty-five years' service.

On behalf of chemists in the County of London and adjacent areas (excluding Essex), the Executive Committee of the London County Pharmaceutical Association has recently concluded negotiations with the Management Committee of the London Public Medical Service for the provision of a dispensing service for persons with incomes between £250 and £550 a year for a trial period of at least six months from January 1, 1937. At the commencement of this new service the number of subscribers will be small and in consequence prescriptions will be few. The scrips to be issued under this scheme will be mauve in colour in order to distinguish them from those issued under other schemes already in existence. The Executive Committee have estimated that the cost, including administration, would be met by a sum equal to 1s. 5d. per person per quarter. A high standard of service is required, and consequently the payment to chemists has been estimated on a higher *per capita* basis. Chemists who are likely to be affected will at an early date receive particulars of the terms and conditions of service from the honorary secretary, Mr. G. A. Tocher, 233-36 Bank Chambers, 329 High Holborn, W.C.1, to whom all inquiries regarding the scheme should be addressed.

### Miscellaneous

THE date of the forthcoming Ideal Home Exhibition in London has been changed to March 30-April 24.

CUTTING IN PALESTINE.—Most of the sixty-five pharmacists of Tel Aviv, Palestine, have formed an organisation to combat price cutting. Mr. Farchi is president. Efforts will be made to extend activities to other towns and to the rural districts.

OPTICAL TRADE EXHIBITION.—An optical trade exhibition is to be held at the New Horticultural Hall, London, S.W., on February 2, 3 and 4, 1937. Concurrently with the exhibition, there will be technical demonstrations of ophthalmic optical instruments and apparatus introduced by exhibitors since September 1933. Other features of the exhibition will be a display of modern optical publicity material and a mannequin show of spectacle frame styles. Particulars will be supplied by Mr. B. G. Arthur, M.B.E., Secretary, Association of Wholesale and Manufacturing Opticians, 69-73 Cannon Street, London, E.C.4.

LONG-SERVICE AWARDS.—Presentations have recently been made to the following members of the staff of Burroughs Wellcome & Co. to commemorate the completion of twenty-

one years' service:—At head office: Miss G. F. A. Freeman, a gold bracelet watch; Miss R. H. Wyatt, a gold wristlet watch; Mr. H. P. Latham, a wristlet watch. At the Wellcome Chemical Works, Dartford: Miss L. B. Willis, a gold wristlet watch; Mr. W. Lowe, a mahogany chiming clock; Mr. E. F. W. Savin, a silver watch; Mr. F. E. Bentley, an oak dinner wagon; Mr. W. Lievesley, an oak chiming clock. The following members of the staff of The Wellcome Physiological Research Laboratories, at Beckenham, have also received long-service awards: Miss E. I. Till, an electric clock; Mr. G. Moules, a silver watch; Mr. T. Tupper, a silver watch.

### Scottish Notes

#### Brevities

Influenza is prevalent in many Scottish towns, and the number of prescriptions has greatly increased.

Considerable apprehension is felt at the decline in the number of students attending St. Andrew's University.

Mr. A. Duncan Mason (Huxley's Pharmaceutical Products) has removed from 30 Kirkwell Road, Cathcart, to 43 Menock Road, Kings Park, Glasgow.

Mr. W. Macmurchy has been appointed Scottish representative of Scott & Turner, Ltd., Newcastle-upon-Tyne, in place of Mr. Robert Hunter, who has retired.

A correspondent writes: "I have recently heard of cases in which Scottish chemists purchased new poisons registers when the Act of 1933 came into force and who, to date, have not had occasion to make a single entry."

The annual report and cash statement of the Chemists' Friendly Society for the year ended July 5, 1936, now available, shows an increase in the annual expenditure on ordinary cash benefits (sickness, disablement and maternity) and on additional (non-cash) benefits (dental, ophthalmic and surgical appliances). The Society's invested capital on July 5 was £39,343.

### Dundee

The Dundee School of Pharmacy Former Students' Association held the annual reunion and dance in Gray's Rooms, Dundee, on December 25, when sixty were present. After supper, Mr. A. R. Lowson (president) welcomed the company, especially members from England. He gave an outline of the Association's activities during the year, and paid special tribute to several of the members who had gained high degrees and positions during the year. The principal of the Technical College (Principal Young) made reference to the absence of Dr. D. McCall (Head of the School of Pharmacy) through illness. He gave an account of the progress of the School of Pharmacy and its recent additions. Prizes were won during the evening by Miss Andrews, Miss Marshall, Mr. J. Robertson and Mr. W. Hall. The M.C.s were Mr. A. R. Lowson, Mr. G. Mitchell and Mr. J. B. Coupar.

### Edinburgh

Chemists in Edinburgh who made special Christmas displays found that Christmas shopping was slow to develop. The winter season has been unusual and in some cases remarkable. November and the first half of December were exceptionally quiet, except for a heavy demand for ointment consequent upon an outbreak of scabies in the city. The outbreak, which began in Leith, appears to have reached the peak about the middle of December. The medical officer of health reported at a meeting of Edinburgh Public Health Committee that the doctors were now getting the upper hand of the outbreak.

Many past and present pharmacy students and examinees at Edinburgh will remember the photographic panorama on the higher part of the Royal Botanic Garden. Mr. William Mair, F.C.S., F.R.G.S. (Fletcher, Fletcher & Co., Ltd.), has presented to the city a similar photograph (6 ft. long by 18 in. deep), looking in the opposite direction. This has been framed in teak and erected on the Braid Hills, a famous view-point, where the photograph was taken, 525 ft. above sea level. The vista, embracing a radius of twenty-five miles, includes the hills of the opposite county of Fife, all the individual

landmarks accurately named with elevations and distances from the view-point. The latter has been done by an authority on the subject, Mr. John Mathieson, F.R.S.Edin., F.R.S.G.S., who has added a geographical disc indicator, which he has drawn, showing the mountain chains—the Ochils, the Grampians and others—which are beyond the range of vision.

During 1936 the Edinburgh Public Medical Service collected £4,610 from subscribers. Expenses included: Drugs, 16 per cent.; collection, 10 per cent.; administration, 12 per cent. The remaining 62 per cent. was divided among the members. The previous year's distribution had been only 55 per cent. In the second annual report, from which these figures are taken, it is stated that the committee could not hope to reduce the costs of drugs or of collection but that additional subscribers would reduce the cost of administration. New subscribers during the year totalled 1,100, and there were 592 withdrawals. There were 127 doctors on the roll. It had been found necessary to take some steps to put a check on the amount spent on drugs, in order to prevent new subscribers from taking undue advantage of the service, and the rules were altered to the effect that new subscribers were not to get drugs until eight weeks after joining and until eight weeks' subscriptions had been paid. Doctors were also asked not to accept chronic cases unless the patient undertook to pay the cost of drugs required. No such case had been notified during the year. The allowance to be made to each doctor for drugs was fixed last year at 16 per cent. of the subscriptions received. The cost for the year had been £741, or 16.07 per cent. of the total. The percentage had been as high as 22.7 in February and as low as 10.9 in August. The average cost per prescription was 1s. 1.25d. This was a little lower than the cost of scripts given to patients under National Health Insurance. The Committee had given thought to the question of eliminating drugs, and either reducing the subscriptions or providing some alternative service. They had also considered whether each doctor should be charged with the cost of the scripts he had issued: should make his own arrangements with a chemist, or should dispense himself. The conclusion had been reached that the method of allowing a fair percentage was the most equitable.

## Irish Notes

### Pharmaceutical Society of Ireland

The latest dates for making applications to enter for the January examinations of the Pharmaceutical Society of Ireland are:—Pharmaceutical Licence Examination, January 4; Pharmaceutical Assistant Examination, January 11.

### Brevities

Mr. R. Rourke, M.P.S.I., The Medical Hall, Mountrath, has acquired Whelan's Medical Hall, Rathdowney, Leix.

Mr. T. A. Gibson, Ph.C., Victoria Street, Belfast, is confined to bed with a fractured leg, the result of a fall during the recent frost.

A chamber of trade has been formed in Bangor, co. Down. The officers include Mr. J. S. Balmer, Ph.C. (vice-president), and Mr. S. H. Forrest, Ph.C. (member of the committee).

The pharmacy of Mr. Douglas Stoops, Portadown, co. Armagh, was destroyed by fire on the morning of Boxing Day. The fire involved an entire block of four shops. The grocery store of Mr. John Sandford, Ph.C., formed part of the block, but the firemen succeeded in saving Mr. Sandford's wine store.

### Belfast

Professor H. Wren, M.A., D.Sc., head of the Pharmacy Department of Belfast Municipal College of Technology, gave expert evidence at Belfast Police Court on December 17 in a case of safe breaking.

Two Belfast pharmacists were witnesses for the prosecution in a case heard recently at Belfast Commission, in which three men and three boys were charged, some with the theft and others with the receiving of a valuable collection of postage stamps, the property of the Postmaster-General: Mr. John Adams, Ph.C., Ballyhackamore, as vice-president and ex-chairman of the North of Ireland Philatelic Society, gave expert evidence as to the value of the stamps, while Mr. Robert Scott, Ph.C., Stranmillis Road, identified a medicine label found on a box and traced to one of the accused.

# Topical Reflections

By Xrayser

## I Begin

by wishing all the readers of THE CHEMIST AND DRUGGIST a prosperous New Year. The past year has not been one of the best of periods, either for the country or for our craft. The disturbances on the Continent have played havoc with drug and oil markets. The prudent man will therefore take what action he can to secure some measure of stability. The shadow of legislation regarding proprietary medicines lies over pharmacy; whether we shall see new measures governing the duty and its incidence by the time the Budget is due is doubtful. The new year brings a demand for £1 11s. 6d. to every pharmacist on the Register, and if he is in business he must pay a further £1 1s. per shop; the latter is a burden which in its totality presses heavily on the trade. We have heard little of the Brunswick Square building recently; this may be very much in evidence during the next twelve months. What is there to offset these somewhat drab musings? The C.F. scheme appears to be in a healthy condition; it should grow in strength and influence during 1937. The Coronation will undoubtedly circulate money, and the pharmacist, with other traders, should eventually benefit by this. I think that pharmacists as a class are waking up and at long last are beginning to think, particularly about pharmaceutical politics in all their implications. The British Pharmaceutical Conference will, I venture to prophesy, provide some thrills this year.

## The Medicine Stamp Duty Inquiry

which you are reporting so excellently is the most absorbing pharmaceutical topic of the moment. It is obvious that pharmacists have a hard row to hoe, for Mr. Kent (for the grocers) and the managing director of Woolworth's are formidable opponents with, doubtless, a "big pull." One point in Mr. Wren's evidence wants think-

ing over seriously. Asked why chemists in general do not sell herbal remedies, he replied that the main reason was "he did not understand them." When one sees the prosperous business in herbs and herbal remedies done by shopkeepers in the North and Midlands, it seems astounding that chemists should allow this integral part of their business to go by the board. One hears more and more the complaint that the chemist's business is becoming nothing more nor less than a handing over of packed proprietaries and a dispensing of synthetic remedies. Pharmacists who are at their wit's end to find ammunition to fight sixpenny bazaars, co-operative stores and so forth might ponder with advantage the words of Mr. Wren.

## That Scots Are Practical

is almost a platitude; but there was evidence of the truth in your report of the Glasgow meeting in last week's issue. I was particularly intrigued with the resolutions put forward by Mr. Ramsay, for these likewise indicate an awareness of what is required in practical pharmaceutical politics. Mr. Ramsay's summer school scheme, one can safely predict, will not be looked upon with favour by those in authority at Bloomsbury Square. This was sufficiently obvious from the opposition of the two councillors present at the meeting. Mr. Ramsay's second venture was even bolder, and its fate will be keenly watched by Oldham and all who witnessed the discomfiture of the Ruling Powers at a branch representatives' meeting at Bournemouth last June. It is comparatively easy to leave over any objectionable suggestion "for consideration and decision" until such time as the gathering has scattered to their lawful occasions and the debatable point has been forgotten. Councillors are then safe from the "heckling" which Scots, in particular, know so well how to pursue.



## Legal Reports

**Shops Acts.**—At Worthing Sessions, on December 23, W. Aston & Co., Ltd., chemists, were summoned for employing Mr. Eric Percival Sorrell, chemist and druggist, on the weekly half-holiday on December 2. The managing director, Mr. F. W. Roberts, chemist and druggist, said the shop was kept open against his written instructions. Mr. Sorrell agreed, and stated that the shop was open after 1 p.m. on December 2 without the knowledge of Mr. Roberts. The Bench dismissed the case on payment of costs.

**Pharmacy and Poisons Act, 1933.**—At Ealing Police Court, on December 16, C. F. Castle, Northfield Avenue, West Ealing, was summoned by the Pharmaceutical Society for selling or causing to be sold strychnine, contained in Easton's syrup tablets, at premises not registered under the Act, and for failing to send in January 1936 to the Pharmaceutical Society a list of the sets of premises and the name of the registered pharmacist having the personal control of each set. Mr. A. C. Castle, prosecuting, said the defendant's business was not registered under the Act. Applications had been made to him and notices inserted in the trade papers. The Bench imposed a fine of 10s. on each summons, with £1 1s. costs and £1 11s. 6d. analyst's fee.—At the same court, F. Sneesby, Northfield Avenue, was fined a similar amount, with costs on two summonses. Mr. Castle said the facts were similar in this case.

At Swansea Sessions, recently, W. H. Evans was summoned for unlawfully using in connexion with his business at 72 Manselton Road the description "pharmacy." In reply to Evans's questions the inspector said the Act allowed no more time to change his labels, and it was pointed out by the magistrate that the Act had been passed in 1933. Evans stated that he was a chemist and a manufacturing chemist, although on a small scale. He had been in business for twenty years. He was ordered to pay costs.

At Uxbridge, recently, William W. Challis was fined 20s. on each of two charges for having sold Jeyes' Fluid, he being an unauthorised person, and for failing to label it with the name and address of the seller.

At Clerkenwell Police Court, London, on December 29, a summons was heard regarding what was described as "a small drug stores" in Seymour Street, N.W.1. Mr. A. C. Castle, for the Pharmaceutical Society, said the business was owned by two ladies, and he did not press for a big penalty. One of the ladies was in hospital. The prosecution was brought having regard to two previous complaints about the sale of poisons. On October 6, one of the Society's inspectors saw that the word "pharmacy" was being used in connexion with the business. The word had now been deleted from the shop front. The solicitor for the defence said the business was formerly known as Knowles Pharmacy, Ltd., and immediately it was pointed out to the owners that an offence was being committed the title of the company was changed to Knowles Euston, Ltd. The case was dismissed on payment of 42s. costs.

At Stratford (Essex) Police Court, on December 30, Hankinsons, Ltd., Ilford Lane, Ilford, were summoned at the instance of the Pharmaceutical Society for having unlawfully used at Ilford Lane and at South Park Parade, Seven Kings, the description "Pharmacies," calculated to suggest that they possessed qualifications entitling them to dispense drugs or poisons. Mr. W. Daybell, defending, pleaded "Guilty." Mr. A. C. Castle, for the Society, said the offences complained of were that the defendant company sold bottles of Cherry Cough Mixture and Neuralgia Mixture to which were affixed labels having the words "Hankinsons Cash Pharmacists." At others of their premises the words had been crossed out on the labels. Mr. Daybell said the defendants had been registered for forty years. The director had served his apprenticeship with a similar firm who were not recognised by the Pharmaceutical Society. In 1908 his firm successfully contested a prosecution by the Society for using the word, and it was not until 1933 that the Society succeeded in getting it on the statute-book that none but chemists could use the word. Mr. Castle mentioned that in 1929 the defendants were fined for applying a false description to goods at East Ham, and in 1930 for unlawfully selling poisons. The Bench imposed a fine of £10 on each of the two summonses.

## New Companies and Company News

**P.C.** means Private Company and R.O. Registered Office

**BARO LABORATORIES, LTD. (P.C.).**—Capital £500. Objects: To carry on the business of analytical and consulting chemists, etc. The directors are not named. Solicitors: Elwell & Binford Hole, 65 Coleman Street, E.C.

**THOMAZI LABORATORIES, LTD. (P.C.).**—Capital £15,000. Objects: To carry on business in chemicals, drugs, medicines, etc. The directors are to be appointed. Solicitor: F. G. Maw, Amberley House, Norfolk Street, W.C.2.

**WOODS PHARMACY, LTD. (P.C.).**—Capital £5,500. Objects: To acquire the business of a chemist and druggist carried on by John J. Pickering at Windsor and Slough. John J. Pickering, 50 High Street, Windsor, director.

**ARMSTRONG AND NIXON, LTD. (P.C.).**—Capital £1,200. Objects: To carry on the business of wholesale and retail chemists and druggists, makers of chemical plant and materials, etc. R.O.: 4 The Parade, Pinner Green, Middlesex.

**DEVON TOILET PRODUCTS, LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in toilet preparations and cosmetics, etc. Wm. A. Hancock, 41 Glenmore Road, N.W.3, director. R.O.: 118 Savernake Road, N.W.3.

**LONDON TESTING LABORATORY, LTD. (P.C.).**—Capital £2,500. Objects: To carry on the business of proprietors of chemical and physical testing laboratories, inspecting and testing engineers of iron, steel, non-ferrous metals and structural materials, etc. R.O.: 81 Cannon Street, E.C.4.

**SUSSEX PRODUCTS CO., LTD. (P.C.).**—Capital £2,500. Objects: To acquire the business of experimental research and other work carried on by C. F. Button at Alexandra Works, Terrace Road, St. Leonards-on-Sea, and to carry on the business of essential oil merchants and distillers. The first directors are Thomas J. McArthur, Sea Place Manor, West Worthing (chairman and managing director of W. H. Hobbs & Co., Ltd.), and Claude W. Moat, 45 Eaton Place, S.W.1 (director of W. H. Hobbs & Co., Ltd., and Claude Moat, Ltd.). R.O.: Alexandra Works, Terrace Road, St. Leonards-on-Sea.

**W. B. COOK (CHEMIST), LTD.**—At a meeting held recently it was resolved that this company be wound up voluntarily. Mr. W. Taylor, Market Street, Nelson, was appointed liquidator.

**LEVER'S (CHEMISTS), LTD.**—At a meeting held in Manchester recently it was resolved that this company be wound up voluntarily. Mr. B. Myers, 82 Bridge Street, Manchester, was appointed liquidator.

**PURE BONE PHOSPHATE & CHEMICAL CO., LTD.**—At a meeting held in Newark recently it was resolved that this company be wound up voluntarily. Mr. T. F. C. Downman, Newark, Notts, was appointed liquidator.

**COMPANIES DISSOLVED.**—Notice has been given in "The London Gazette" that the names of the undermentioned companies have been struck off the register and the companies dissolved: The Bridge Pharmacy, Ltd., British Dental Brush Manufacturing Co., Ltd., G. M. H. Fisher's (Chemists), Ltd., G. T. Bee (Chemists), Ltd., Mioto Perfumery Manufacturing Co., Ltd.

**EUCRYL, LTD.**—The directors have again decided to pay what must be regarded as a final dividend for the year ending December 31, 1936, instead of waiting until after the presentation of the accounts at the annual general meeting to be held in April, and have declared dividends of 7 per cent. on the preferred ordinary shares and 10½ per cent. on the deferred ordinary shares, making, with the interim dividend paid on July 1, a total for the year of 12 per cent. on the preferred shares and 15½ per cent. on the deferred shares, as compared with 10 per cent. and 12½ per cent. respectively for the previous year.

# Scottish Pharmaceutical Federation

A MEETING of the Executive Council was held in Edinburgh recently, Mr. John Weir (vice-president) in the chair. Twenty-one applications for membership were passed.

## TEST PRESCRIPTION

A report was given of a test-prescription case against a member where there was an excess of 87 per cent. of acid. nitric. dil. The member admitted having used acid. nitric. dil. of the B.P., 1898, which contains 17.5 per cent. of nitric acid, compared with the 10.5 per cent. of nitric acid of the B.P., 1932.

## INDEMNITY CLAIMS

The following were reported in addition to one claim not settled:—A claim against a member for supplying olive oil which his assistant had measured in a measure previously used for measuring camphorated oil; settled for £10, including £3 expenses. A claim in respect of a coat torn on a nail protruding from a ladder; settled for 25s.

## REPRESENTATION ON N.H.I. BODIES

Reference was made to the negotiations with the Pharmaceutical Standing Committee (Scotland), and as a result to the amended constitution of the General Council of Panel Chemists (Scotland), which now provides that the president and vice-president of the Federation are *ex-officio* members of the General Council of Panel Chemists (Scotland) and of the Pharmaceutical Standing Committee (Scotland).

A letter was read from the Ethical Pharmacologists Association stating *inter alia* that "this Association cannot recommend its members to grant increased retail discount"; the matter was remitted to the General Purposes Committee.

A company's account against a member for £2 15s. in respect of an electric sign which he found was of no use when he required it, and which he returned to the company, had been dealt with by the secretary. The company had agreed to take back the sign and accept the sum of £1 7s. 6d. in full settlement. A member's claim against a company in respect of a carboy which was broken by one of the company's representatives when dressing the member's window was settled for £8 10s., which sum was paid to the member. A company's account against a member for £1 11s. 6d. in respect of advertising in a church calendar, one of the conditions on the order form being "Sole rights for chemist and photographic dealer," had been dealt with. The book was not distributed to members of the congregation or others by the beginning of October, and the company had inserted another chemist's advertisement in the book. The secretary wrote repudiating the account on the member's behalf.

## REASONABLE ACCESS DIFFICULTY

It was reported that one member's shop is next door to a picture house and that people waiting in queues for admission prevent reasonable access to the shop door and windows. The secretary replied that in the ordinary course of their duties the police have power to prevent any such obstruction seen by them, and that if a complaint is lodged with the police it is their duty to deal with it.

## PROPOSED REGULATION OF HOURS

Reports were given of various meetings attended by the president and vice-president regarding the proposed regulation of wages, hours and conditions in the distributive trades in Scotland. It was also mentioned that the General Purposes Committee had submitted a memorandum to the Ministry of Labour in connexion with the matter so far as the retail drug trade in Scotland is concerned.

## SUGGESTED C.F. SCHEME

A draft minute of agreement between the Federation and a manufacturer was approved, and it was decided to circulate every retail chemist in Scotland asking him to state whether or not the Executive Council of the Federation should endeavour to commence a Chemists' Friends scheme for Scotland on the lines indicated in the draft agreement.

## OTHER BUSINESS

A report was given of what the Federation had done in the matter of medicine-stamp duty, and a draft memorandum for submission to the Select Committee was submitted and approved. The president was authorised to give evidence and to obtain any assistance desired.

It was reported that the secretary had written to H.M. Superintending Inspector of Factories for Scotland objecting to his inspectors recommending any specific chemists when a first-aid box requires refilling, and requesting him to give instructions not to do so in future and to let the Federation know that he has done so. A reply had not yet been received.

It was reported that the Federation had joined the Scottish Distributive Traders' Co-ordinated Committee as an "Associate" member.

# Research in Chemotherapy

DURING the past month "The Lancet" has published two monographs (5910, 1319, 1323) recording chemotherapeutic investigations that have yielded promising results. The first, by Leonard Colebrook and M. Kenny, is entitled "Treatment with Prontosil of Puerperal Infections Due to Haemolytic Streptococci"; the second, by Leonard Colebrook, G. A. H. Buttle and R. A. G. O'Meara, is on "The Mode of Action of *p*-Aminobenzenesulphonamide and Prontosil in Haemolytic Streptococcal Infections." With scientific caution the authors of both these papers refrain from making confident claims and drawing dogmatic conclusions. It is pointed out in the second paper that no satisfactory explanation has yet been given for the unmistakable effect of prontosil and of prontosil soluble in controlling infections by haemolytic streptococci in the mouse, and for the apparently analogous curative effects reported in man. (A footnote states that the manufacturers of Prontosil have recently changed its name to "red prontosil.") The authors' summary of the results recorded in this paper is as follows:—

*p*-aminobenzenesulphonamide has a bacteriostatic and bactericidal action against small numbers of haemolytic streptococci in culture medium and in blood.

Prontosil is inactive, but on reduction an active substance is produced.

Following administration of the sulphonamide, or of prontosil, to man and animals their blood is bactericidal to haemolytic streptococci.

Turning to the first monograph, the statistical details of results obtained in certain hospitals are striking. A brief passage may be quoted:—

... the falling death-rate in the London County Council experience might appear to throw doubt on our conclusion that prontosil has been largely responsible for the striking improvement in the clinical results at Queen Charlotte's Hospital. It should be pointed out, however, that, whereas at the London County Council hospital the fall in death rate has been progressive over a number of years without prontosil treatment, at Queen Charlotte's Hospital it was as high as 24 per cent. even in 1935, and has fallen to 4.7 per cent. only since the beginning of 1936, when prontosil was first used. While, therefore, we are prepared to admit that a natural decline in the severity of the disease may well have played a part in this change in fatality, we feel that our present high opinion of the value of prontosil and related compounds is probably justified, particularly in view of the impressive results of animal experiments and the clinical data summarised. . . .

The authors conclude by remarking that they are investigating the relative efficacies of prontosil and *p*-aminobenzenesulphonamide. They suggest that the widespread clinical application of the prophylactic use of the drugs should not be pressed until they have been more fully explored in the laboratory.

CEPHOS, LTD., Blackburn, have subscribed £100 towards the endowment of a cot at Blackburn Royal Infirmary.



# Insurance Act Dispensing

Record of matters concerning chemists' interests in the National Health Insurance Acts

## ENGLAND AND WALES

**Hertfordshire.**—A recent test prescription for 8 oz. of mist. pot. brom. was found to contain an excess of 21.1 per cent. of ammon. carb. The chemist concerned did not attend the meeting of the Pharmaceutical Service Subcommittee, but sent a letter saying that he purposely used a few grains more of the ammon. carb. than the 16 gr. ordered in the prescription, thinking that it might possibly have lost a little of its strength. He added that he had no qualified person to leave in charge of his pharmacy. The Subcommittee recommended that the chemist should be cautioned. A chemist member declared that ammon. carb. should never have been included in the test prescription. He suggested that no caution should be administered. A doctor considered that the excuse of the chemist was rather worse than the offence. He seemed to have added an indefinite quantity. The voting on the recommendation was equal, and the chairman gave his casting vote in favour of the recommendation. Another chemist was cautioned respecting a prescription for collyrium acid. boric. c. hyd. perchlor., in which there was a deficiency of 23.53 per cent. of hyd. perchlor. The chemist wrote stating that he had never had this collyrium to dispense before, and he could not understand the deficiency in the liquid, which he purchased from a reputable house some years ago. He had destroyed the remainder. A third chemist was cautioned with regard to an excess of 48.8 per cent. of acid. sulph. dil. in a prescription for 8 oz. of mist. ferri aperiens, the chemist explaining that the ingredient in question was from a bottle made up by a previous dispenser, and he had used it believing it to be correct. The chairman observed that these were the only instances of chemists reported upon during the year.

**Liverpool.**—The Insurance Committee have elected Mr. W. Spencer Garrett *Chairman* and Mr. A. J. Murnaghan *Deputy Chairman* for the coming year. The retiring chairman (Mrs. A. Billinge) said that the average cost of medicine per insured person on doctors' lists was 3s. 8d., about 4d. per head more than in Bootle, 9d. per head more than St. Helen's, and 7½d. per head in excess of the average for the country.

**Warwickshire.**—The Pharmaceutical Committee at a recent meeting "welcomed the co-operation of other pharmaceutical committees in pressing for full payment of dispensing accounts." The pharmaceutical services subcommittee reported that they had dealt with four dispensing tests submitted. A deficiency of 16 per cent. turpentine in lin. album was reduced on check test to 12½ per cent. and the case was dismissed. An ambiguity concerning an Elastoplast bandage was cleared up by the dispenser, whose explanation was accepted. A sample of mist. ammon. chlor. co. showed a deficiency of 45 per cent.; a penalty of £1 was decided upon. Another mixture showed an excess of 20 per cent. ammon. carb.; the dispenser in this case was warned. A sample of gauze gave only 15.5 warp threads to the sq. in.; but as all the stock so deficient had been returned to the manufacturer no further action was proposed.

## SCOTLAND

**General Council of Panel Chemists (Scotland).**—A meeting of the Council was held at 36 York Place, Edinburgh, on December 15, Mr. J. B. McVittae in the chair. It was intimated that the negotiations with the Scottish Pharmaceutical Federation, which had been in progress for some time, had been satisfactorily concluded, and that under the amended constitution agreed upon in December 1935 the president and vice-president of the Federation became *ex officio*, in an advisory capacity only, members of the General Council of Panel Chemists (Scotland) and of the Pharmaceutical Standing Committee (Scotland) in the same manner as the chairman and vice-chairman of the Executive of the North British Branch of the Pharmaceutical Society. A report was submitted from the Pharmaceutical Standing Committee (Scotland) intimating the result of an interview with the Department of Health for Scotland. The interview was for the purpose of discussing changed conditions which had arisen since the existing terms of service

had been agreed upon in 1920. A proposal had been submitted to the Department for a revision of the terms of service. The Department had replied that it would be necessary to consider the position very carefully, and suggested that the existing terms should be continued for 1937, any alterations which might be decided upon to take effect only from the beginning of the year 1938. The Committee, after careful consideration, agreed to recommend that in the circumstances they should accept the proposal made by the Department. The Council agreed to accept the recommendation of the Pharmaceutical Standing Committee.

**Aberdeen.**—The clerk to the Burgh Insurance Committee reported that payments to chemists were considerably less than they had been for the previous few months. This was always so in summer, it was stated. The total number entitled to medical benefit in Aberdeen was 72,355, compared with 69,250 in the previous report. He did not know how to account for the increase. Extension of the Burgh area did not involve more than 500 or 600 people. The Committee agreed to place on record an appreciation of the services of Mr. Charles Simpson, whose death was reported in the *C. & D.*, September 26, p. 357. The Department of Health for Scotland has requested the burgh Insurance Committee to report whether in Aberdeen the insured population is more unhealthy than in other burghs. Statistics issued by the Drug Accounts Committee showed that in the Aberdeen area the average cost per person had increased from 23.61d. in 1934 to 26.42d. in 1935, the total increase in the chemists' payments (excluding insulin) amounting to £716. The Department, from a survey of comparable areas, felt that increased sickness during part of 1935, though responsible for some rise in costs, did not entirely explain the relatively high cost compared with other burghal areas. The chairman said they could wait until the Panel Committee had made their observations.—At a subsequent meeting a member said it was common talk that if they asked a panel patient "Are you taking any medicine?" the reply was "Yes, the doctor said he could give me a certain article, but it was outside the panel." The chairman declared that if anyone would give definite evidence they would deal smartly with the case. They did not object to the high cost of prescribing, if the prescribing was of real value to the patient.

**Stirling.**—The problem of the chemist who receives a prescription for an unusually large amount of medicine was referred to at a meeting of the Burgh Insurance Committee. The Panel Committee reported on the case of a doctor who had prescribed a large quantity of menthol, and who stated to the Panel Committee that the only explanation he could offer was that the symbol for ounce had been substituted for that of drachm. The Panel Committee considered that this was a mistake which was understandable, and asked "Dr. X" to exercise more care in future. Mr. John Skinner, chemist, mentioned a prescription he had received clearly written for four oz. of menthol. He presumed this was a mistake and altered it to four drachms. Payment was made for four drachms. A few days later he received a prescription from the same doctor for the same patient, again marked four oz. of menthol. On this occasion he had no option but to presume this was a special case. When the first prescription was altered to the smaller quantity the doctor should have been alive to the fact that the smaller quantity had been dispensed. Following a recommendation that doctors should be paid a fee under the National Health Insurance scheme for the treatment of persons injured in street accidents, a chemist member stated that it was a common thing for an injured person to be carried into the nearest chemist's shop; often a good deal of cotton-wool, bandages, etc., was used for which the chemist never received a farthing. Could there not be a recommendation to panel doctors who treated panel patients in a chemist's shop that they should try to see that the chemist was remunerated for what he supplied? The Committee remitted the matter to the Medical Services Subcommittee with instructions that they should recommend to the proper authorities that chemists should be recompensed for materials provided in such emergencies.



# Reminiscences of Prescribing

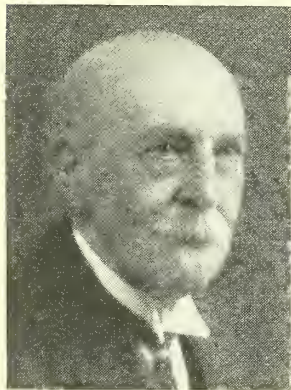
By U. Aylmer Coates

THE majority of medical practitioners seem to be imbued with the idea that any suggestion or invention of medical interest originating from a source not endowed with the stamp of the medical faculty must necessarily be unsound and not worthy of the least investigation. From time immemorial this has always been the policy of the medical profession.

Harvey, the discoverer of the circulation of the blood, was styled a "vagabond" and a "quack" and was lampooned from one end of Europe to the other. Ambroise Paré, surgeon to Francis I, who first applied the ligature instead of boiling pitch to the surface of the stump to stop the bleeding, was persecuted in the most remorseless manner by the faculty. The same thing occurred to Jenner, who introduced vaccination for smallpox. Massage was practised from time immemorial by "quacks," and was first used by Dr. S. Weir Mitchell as an important factor in his scheme of treatment. An eminent physician at the time said it would be preferable to allow patients to linger on in their miserable condition than to use such methods to cure them. It was the same when Mesmer introduced hypnotism in 1778.

When I was apprenticed in November 1873, the prescribing chemist was looked up to by the public as a man who could cure almost any ordinary ailment. Numbers of chemists had "Consulting Room" over the door of a room leading from the

shop. One shop in the town had a fascia board over the shop window with "Medical Hall" on it. All sorts of minor complaints and injuries were attended to in those days. Doctors would not look at a venereal case, and the patients used to flock to the chemist, who did try to give them a square deal, only charging them for their medicine. Scores of cases of simple gonorrhœa were cured at the commencement with a mixture of mag. carb., mag. sulph. and pot. nit., at 1s. 6d. per bottle. It was a gold mine for quacks. In those days numbers of men who had not passed their final examination practised as medical men. I knew one well; in fact, when he got married to a well-known singer, I bought the contents of



MR. U. AYLMER COATES

his surgery and also his operating chair from him. I used to dispense for a doctor to get experience, and when he went for a week-end shooting he would get another doctor to visit his serious or maternity cases, if required, during his absence. I remember after he had been away one week-end during which I had taken the round, he sent an urgent message, saying he wanted to see me about one of the patients. I wondered what was the matter. As soon as he saw me, he said: "Sit down. Do you know what you have done? You have cured one of the best paying patients I have got!"

## Trying Remedies

Naturally, I wanted to get to know all I could about the action and properties of medicine, as I was then under the impression that if you could only find the right drug, you could cure any complaint under the sun. After sixty-three years' experience, I have come to the conclusion that it is an illusion. In my library I have a collection of works on therapeutics, including Lauder Brunton, Whitla, Ringer, Hare and many others. When I commenced reading them I found one recommending a certain drug as a specific for a complaint and the next authority I took up decrying it as useless. Time after time have I tried the effects of various drugs on my own system. When Weston, the walker, popularised coca about 1876 by walking 1,000 miles in 1,000 half-hours, during that time sustaining himself by chewing coca leaves only, I at once got

some leaves and tried the effect in the form of chewing with lime, taking infusion, extract and then the alkaloid I got from some of it. I think the most wonderful effect I got from it was when one of my sons, an electrician, came to me with his arm, from elbow to wrist, burnt by molten copper. I made a solution of cocaine and mixed it with vaseline, then plastered it on his arm. The pain subsided at once and the healing was marvellous.

Another drug I tried the effect of was cannabis indica in the form of extract. I took the precaution of having a friend of mine, a surgeon, present to look after me. After taking 6 grains I was very disappointed in the result. I have many times tried to describe the effect, and I only realised what was nearest to describing its effect the first time I saw a slow-motion picture at the cinema. It appeared to take a tremendous time to raise my arm, and on looking to my left hand I found my double was seated by me in a chair and imitated all my movements. It was anything but pleasant. I remembered no more until I woke up in bed to find that my friend had put mustard plasters on my feet and over my heart.

For forty years I have been in the position to prescribe without taking a fee, and always told the party that if I took it the remedy would do no good. I have come to the conclusion that faith has more to do with a cure than the medicine: in fact, I have always told people who have come to thank me for a cure to thank God and not me. Many a case have I sent for proper treatment to a medical man which could have been disastrous if neglected.

## Peculiar Cases

A friend of mine came to me and asked if I could do anything for a man who had diabetes. He said he had a wife and six children, and that if I could do anything for him he would pay all the expenses. I gave him some medicine, and inquiring later, my friend said he was cured but had left the town. Some time after, a friend (a schoolmaster) begged me to try to cure him of diabetes, as the doctor said he could do no more for him. I told him the responsibility that rested on me, but that I had some of the remedy left with which I had treated that man I have mentioned, that I would give it him and that if it cured him, well and good. Every week I tested for the amount of sugar. In six weeks there was no trace of sugar. Eventually he became so stout he could not wear the clothes he wore before he had diabetes. He lived for thirty years after, and died two years ago. So many people wanted to know how he had been cured that I had to beg of him not to mention my name, or I should have been overwhelmed. Would the treatment cure another case? I mean cure, not relieve like insulin. Here is the remedy, which at that date I had great difficulty in obtaining: I made a fluid extract of jambul seed and gave it alternately with a mixture of tinct. ferri perchlor. and quinine.

In another case a gentleman brought a man to me and said "This gentleman has a cancer on his face. Will you cure him?" On inquiry I found that he was being treated by two doctors with x-rays. I told him that the proper treatment was in their hands and dismissed him. About two months after he came again, and as soon as he got into the room pulled off his coat and, baring his arm, said "Look at that." His arm was swollen to twice its usual size and inflamed. I said "What have you been doing to it?" He replied: "Oh, they sent me to a specialist and this is the result. I have finished with doctors." He begged me to treat him. I pointed out the responsibility it would place upon me, and that he might lose the sight of his eye. He replied that the doctors told him he would have to take that risk, as he might be blinded if the x-rays diverted. Eventually I treated him by painting it with a solution of bichromate of potash followed by simple ointment to reduce the inflammation. Three treatments cured it, and fortunately it never returned. He came to me some time after when he was a bit out of sorts and I told him to go to his own doctor. On referring to his notes, the doctor said: "Why, when you were here before you had a cancer on your face. What about it?"

A chemist lived near me. On returning from a holiday, my wife said: "Mr. — is seriously ill; it would be only neigh-



bourly to go and inquire how he is." His wife opened the door. I had never seen her before, and was surprised when she recognised me and said, calling me by name: "I am pleased to see you. My husband says if anyone can cure him it is you." On inquiring, she said he had erysipelas and had been delirious, but seemed himself just at the time. He was painted over his face and neck with ichthyol and the erysipelas was spreading down his back. I told him I could do nothing without his medical attendant's consent. About an hour after, he sent for me and said the doctor, whom I knew well, was quite willing. I took some lint, bandages and lotion with me. The orthodox treatment is never to use fluids, but powder. I soaked the lint in the lotion, and even whilst I was applying it he fell asleep. In the morning the inflammation had subsided. He made a complete recovery. This was the lotion: two ounces of liq. plumbi fort. made up to one pint with water.

These are only a few instances. The question is: "Did I do right in undertaking to treat them?" I should imagine there must be hundreds of chemists, especially in country districts, whose livelihood depends upon prescribing for simple ailments, and I should say an ordinary business could not be carried on without. If chemists were prevented from prescribing, the herbalists would benefit. It would surprise many chemists if they only knew the amount of prescribing done by herbalists. The great mistake was made when the pharmacists so strictly defined the business of a chemist and druggist in the Apothecaries' Act. Had they said that it should be carried on to all intents and purposes as was done before the passing of the Apothecaries' Act, this question of prescribing would never have arisen. We are still in the same position as we were exactly sixty years ago, with this exception, that the understanding between doctors and chemists is on a much better footing. I do not think any chemist would wilfully encroach on the rights of the medical profession. I do think that the best thing to do on this question of chemists' prescribing is to let sleeping dogs lie. With a policy of give and take it will eventually right itself.

### Two Sides

At the commencement of this article I drew attention to the conservative policy of the medical faculty, but there are two sides to every question. It stands to reason that any man who has made a life study of the action and properties of drugs must be in a very strong position and knows what to recommend as the best remedy for certain complaints; also, that a man who has given his lifetime to the study of diseases must know how to recognise their symptoms. It is impossible to learn all. Many a time have my medical friends asked me about the action and properties of various drugs. Now I will give the other side of the question, which is taken from a cutting from "The Lancet" dating from 1905:—"Ask any of these medical men fresh from the examination room the proportion of opium contained in Dover's powder, or of arsenic in Fowler's solution. I fear they will have scarcely heard of these preparations. Ask such a man to treat a case of simple anæmia. He would probably commence his examination by taking a blood count; then, after having treated the patient for a week, would want to take another blood count in order to discover whether the treatment had been effectual or otherwise. The medical man will in his own practice see more frequently cases such as influenza, measles, bronchial catarrh or neuralgia than he will in the hospital. It is from such ailments as these the medical man will probably earn three-fourths of his income, and these very evident cases which can be diagnosed in a moment are just those of which he knows least. It is here that the dispensing chemist steps in, and I have no hesitation in saying that the chemist knows more about these cases and gives far more suitable and efficacious remedies than many a medical man who has been in practice for years. . . ."

The wholesale drug houses have been quick to recognise the deficiency. We can learn all we want to know in the way of treatment (by medicine) from the drug traveller. He will give a learned discourse on the therapeutic value of each of his wares and set you up with a compressed remedy for each and every ill. A doctor will perhaps prescribe his remedy and the patient, wise in his generation, when he requires further treatment, will replenish his supply from the nearest grocer or tea shop. The practice of medicine is not an exact science, and when a drug is administered to a patient and produces some unexpected result, it is put down as being due to the idiosyncrasy of the patient.

## Curious Customers

By E. H. G. Bennett

EVERY business is different: city, suburb, country town, village and seaside resort, all bring varied types to the pharmacy. Clifton, near Bristol, had, in my early days, a preponderance of retired Army and Navy men and city merchants, but St. Philip's, Bristol, was full of factory employees and poor people. The Forest of Dean was the abode of miners, quarrymen and woodcutters, seemingly blunt and coarse, but in closer knowledge very kind. Colchester had a large proportion of farmers, and Ipswich provided many wealthy tradesmen.

In my small Suffolk town everyone has a flavour of the soil: all derive their living from field, flock and herd. To the town dweller rain and snow are just a nuisance, but to the workers in the open they are either a curse or a blessing. "This 'ere rawne 'as 'elped my beet along wunnerfully," said one; but his neighbour replied: "'T'as spylt me 'ay," or "The damp gave me ship (i.e., sheep) foot-rot." How about prescribing for "cow with wooden tongue," animal hidebound, gapes, grease or warbles? This is where the C. & D. "Veterinary Counter Practice" is useful to the pharmacist.

### An Unusual Tonic

At Clifton, one evening, a gentleman called and asked our chief to come along at once and spend an hour with his (the caller's) father. The father was dying, presumably, but the new interest brought in by our chief (almost a stranger) enabled the patient to rally to such an extent that he lived for two years afterwards. I asked my employer what he had done to revive him. "Oh," he replied airily, "I just talked about current news, the state of Europe, the Royal family, and in fact anything I could think of; took his thoughts away from himself, and he just tidied over!"

How many chemists have washed shirts for their customers? This actually happened once. The shirt, a coloured one, was stained by sea water, so in response to a client's request we soaked it in a weak solution of chlorinated lime and afterwards gave it a rinsing in several changes of water. Handkerchiefs and collars wrongly marked were brought in occasionally to be "unmarked." In the Forest of Dean we had a demand for freshly ground coffee; here also we retailed the weekly newspaper and snuff.

### An Antidote

In the pharmacy beneath the shadow of Colchester's Town Hall, one day, the town sergeant (a stately man) entered in a most unusual hurry, and shouted at me "Woman taken carbolic acid! What—shall—I—do?" Quickly I handed over the 30-oz. shop round of olive oil. "Pour all you can down her throat!" I shouted back. The messenger raced out of the premises. About five hours later he returned with the remainder of the oil, of which about 10 oz. had been used. "Is she alive?" I queried. "Yes," was the reply. So relieved was I that a life was saved that I forgot to charge for the oil.

In the early days of motor buses in the City of London, it was a frequent thing for country people to come in for a draught for sickness, as they were upset by the smell of petrol and oil. A different recollection comes to me from North-West London. A customer of ours was a well-known composer who occasionally borrowed a shilling for postages in order to write to his publishers. To show his appreciation, he once presented two of us with a signed copy each of one of his pieces, words and music.

In a country town there are many out-of-the-ordinary tasks to do. Three times I have photographed weddings, and once I was invited to stay to the wedding feast—which I much enjoyed. Another unusual request: "If I send a car for you at ten o'clock to-night, will you come and photograph my house and garden by floodlight illumination?" I used a stand camera, and gave ten minutes' exposure, with good results. This led to increased business in taking gardens, a fascinating task. The meets of the local harriers afford profitable recreation also.

BRITISH PHARMACOPŒIA.—The Pharmacopœia Commission of the General Medical Council has suggested that efforts should be made to publish the next British Pharmacopœia in 1941.



## Trade Notes

**HAEMAMOL.**—Duncan, Flockhart & Co., Edinburgh and London, advertise Haemamol, the name given to Duncan's haemorrhoidal ointment which, in addition to its primary use, is also suggested for abrasions and irritations of the skin. Specimen tube and terms are obtainable on application.

**CYSTOPURIN TABLETS.**—Genatosan, Ltd., Loughborough, Leicestershire, give eight reasons for their claim that Cystopurin tablets are the ideal urinary antiseptic for oral administration. They are packed in three sizes, and a dispensing pack is also issued. Literature and show material may be obtained on application. Further information is given elsewhere in this issue.

**A GENEROUS NEW YEAR GIFT.**—Thos. Christy & Co., Ltd., 4-12 Old Swan Lane, London, E.C., direct attention to the Page-Barker special offer of a dozen bottles free, in addition to the usual bonus of three bottles, with every order for three dozen of Dr. Page-Barker's scurf and dandruff lotion. Details are given elsewhere in this issue.

The accompanying illustration shows a Grips Pastille window arranged by Grips Laboratories, Ltd., at Coopers Stores, Liverpool. Among the items displayed were Grips Pastilles,



Merrimacs (containing Dr. Maclean's Powder), coltsfoot rock, cough candy and a large number of other products packed for chemists only. A free jig-saw puzzle was given with every purchase amounting to 1s.

**FLETCHER'S SPIRIT STOCK BOOK.**—This well-known publication has reached an eleventh edition, just published by Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, Holloway, London, N.7. The latest (1934) Spirits (Medical Purposes) Regulations are included, but otherwise there is little change from the previous edition. In the absence of any prospect of immunity for pharmacy from the incidence of the super-duties on potable spirits the claim for rebate remains a necessity which this book fully meets: it was the first of its kind. There are many useful tables and a ready reckoner, from 1 to 160 fl. ozs., rendering conversion easy into miles, proof ounces or proof gallons to the third decimal place. The price is 1s. 6d. post free.

A HANDSOME COLOURED INSET directing attention to Reigate brand blackcurrant pure fruit concentrate appears elsewhere in this issue. This product is said to be the richest known source of Vitamin C, and it is guaranteed to be prepared only from the finest fresh fruit, no flavouring or colouring matter whatsoever being added. It is packed in imperial pint bottles in cases of two dozen by the makers: White, Tomkins & Courage, Ltd., Reigate, Surrey.

**NEW AGENCY APPOINTMENTS.**—Savory & Moore, Ltd., 50-52 Wigmore Street, London, W.1, advertise on the front cover of this issue the fact that they have been appointed from January 1, 1937, sole agents for this country for the following firms: E. Merck, Darmstadt; E. R. Squibb & Sons, New York; Original Ichthyol Products, Hamburg. So far as Merck products are concerned, Messrs. Savory & Moore are sole agents for pharmaceuticals and chemicals; they represent Messrs. Squibb for tooth-paste and magnesia, and inform us that an intensive advertising campaign will be carried out to the medical profession. With regard to ichthyol products, the original ichthyol will be imported, but, in addition, they will manufacture in this country a number of specialities incorporating what is described as a practically stainless and colourless ichthyol which has the properties of the original substance. Trade marks in regard to the word "Ichthyol" will be upheld.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1937, p. 338.

(From "The Trade Marks Journal," December 9, 1936.)

- "AYMU"; for perfumery, etc. (48). By Colfré Products, 2 Southey Road, Wimbledon, London, S.W.19. 564,334.
- "LYSANTOL"; for perfumery, etc. (48). By Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C.3. 572,338. (Associated.)
- "MISTOL"; for all goods (48). By Stanco, Inc., Bayway, New Jersey, U.S.A. 570,632. (Associated.)
- Shield design, for perfumery, etc. (48). By The Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove. 571,584.
- "PHYLLIDIA"; for all goods (48). By Phyllidia, Ltd., 2 Commercial Buildings, High Street, London, S.E.25. 572,769.
- "BEAUTILITY"; for perfumery, etc. (48). By C. D. Patmore, 651 Hertford Road, Waltham Cross, Essex. 572,574.
- "LUCANE"; for hair dyes (48). By L. Antonopoulos, 5 Sunny Gardens Parade, Hendon. 572,904.

(From "The Trade Marks Journal," December 16, 1936.)

- "No-Co-Ro"; for photographic chemicals, etc (1). By Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, Sheffield. 573,044.
- "KEIMORE"; for disinfectants (2). By Wimsol, Ltd., Grace Street, Keighley, Yorkshire. 573,150.
- "KOMRAD"; for medicines for internal use, liniments for external use (3). By W. G. Kelynack, 83 Thornton Road, Thornton Heath, Surrey. 571,552.
- Label design for "G-P" Lubricant; for medicated jelly as lubricant for surgical instruments (3). By G. F. Merson, Ltd., St. John's Hill, Edinburgh. B570,187.
- "DOMCO"; for medicinal cod and halibut liver oil (3). By D. Mawdsley & Co., Hanover Street, Shudehill, Manchester. 570,685. (Associated.)
- "WESCO"; for medicated preparations for coughs and colds, etc. (3). By The Western Counties Products, Ltd., 25 Jamaica Street, Stokes Croft, Bristol, 1. 571,812.
- "SANAMAR" in lifebelt design; for medicated preparations for treatment of sickness, nausea, etc. (3). By Mothersill Remedy Co., Ltd., 294 St. Paul Street West, Montreal, Canada. 573,019. (Associated.)
- "MANTALEX"; for medicated preparations for coughs, colds, etc. (3). By E. Mantle, Commercial Street, Pontllanfraith, Mon. 572,955.
- "FESTINA"; for baby soothers, etc. (11). By Esco (Rubber), Ltd., Oldhill Place, London, N.16. 572,650.
- "IMMACULENE"; for perfumed hand toilet preparations (48). By Disabled Men's Products Distribution Co., 25 Victoria Street, London, S.W.1. 571,123.
- "KALATALK"; for perfumery, etc. (48). By Bond Products, Ltd., 5 Gunnersbury Crescent, London, W.3. 571,375.



## Births

Notices for insertion in this column must be properly authenticated.

**BARTON.**—At the Burlington Nursing Home, Slough, on December 30, 1936, Daisy, wife of Archibald R. Barton, M.P.S., 12 The Promenade, Bath Road, Cippenham, Slough, of a daughter.

**RUTHERFORD.**—At Wellington (Somerset) Maternity Home, on December 28, 1936, Marian, the wife of Lionel Rutherford, M.P.S., 31 Fore Street, Wellington, of a son.

## Marriages

**CRITCHLEY—BRETT.**—At the Parish Church, Cheltenham, on December 16, 1936, Thomas E. Critchley, M.P.S., to Dorothy G. Brett.

**NEEDHAM—HEYWOOD.**—At St. Margaret's Church, Burnage, Manchester, on December 26, 1936, George Needham, M.P.S., Handforth, Cheshire, to Nancy Heywood.

## Deaths

**BENNETT.**—At Andromeda, Liverpool Road, Formby, Lancashire, recently, Mr. Charles Joseph Bennett, chemist and druggist. Mr. Bennett qualified in 1880.

**BRADY.**—At Bellaghy, co. Londonderry, on December 20, 1936, Mr. William James Henderson Brady, chemist and druggist. Mr. Brady was registered as a chemist and druggist in Dublin in 1891 and had latterly been registered by the Northern Ireland Society. He had been in business for many years.

**DUNN.**—On December 17, 1936, Mr. Thomas Dunn, manufacturing chemist, 39 Wellington Street, Greenock, aged seventy-six.

**HUTCHIN.**—At Brierpatch, Loughton, Essex, on December 18, 1936, Mr. Llewellyn Albert James Hutchin, chemist and druggist, aged seventy-three.

**JOHNSON.**—At 39 Crossways North, Wheatley Hills, Doncaster, on December 20, 1936, Mr. George Johnson, chemist and druggist, chief dispenser at Doncaster Royal Infirmary, aged forty-nine.

**KERFOOT.**—As we go to press we learn with regret of the death, on December 30, 1936, at the age of ninety-six, of Mr. Thomas Kerfoot, Ph.C. (Thomas Kerfoot & Co., Ltd., Bardsley Vale, Lancashire), an event to which further reference will be made.

**MANDER.**—On December 28, 1936, Mr. Alfred Mander, Ph.C., F.C.S., Belle Vue Pharmacy, Malvern, aged sixty-nine. Mr. Mander was a Jacob Bell scholar in 1887, and won other distinctions at the Pharmaceutical Society's School. He carried on business in Malvern for over forty years. Mr. Mander leaves a widow, two sons and a daughter.

**SAYER.**—Recently, Mr. Walter Sayer, a departmental manager to Evans, Gadd & Co., Ltd., manufacturing chemists, Fore Street, Exeter. Mr. Sayer had been with Messrs. Evans, Gadd & Co. for over fifty years. Mr. F. Southerden and Mr. W. T. Symes (directors) and several members of the staff were present at the funeral service.

## Personalities

**MR. CYRIL F. SCURR**, son of Mr. C. A. Scurr, M.P.S., F.S.M.C., Barnet, has passed the Intermediate Science (Lond.) examination held recently, exempting him from first M.B., B.S.

THE constitution of the Poisons Board for 1936-39 remains the same as previously, with the exception of the member appointed by the Ministry of Agriculture and Fisheries, who is now Mr. C. Nathan.

NOTICE is given in "The London Gazette" that Frank Levy, 24 West Dulwich Mansions, Dalkeith Road, Dulwich, chemist, has assumed the name of Frank Stephenson by deed poll.

**MR. J. F. SIMON**, Ph.C. (Goodall, Backhouse & Co., Ltd., Leeds), is ill with influenza and bronchitis, and his wife has had to undergo a serious operation. We are glad to learn that Mrs. Simon is making a good recovery.

ON December 29 "The Times" published a statement by Mr. Thomas Marns, president of the Pharmaceutical Society, in an article headed "Sale of Drugs: Benefits of the New Regulations: Making It Difficult to Buy Poisons."

**MR. G. H. FAIRBURN**, M.P.S., Leyburn, who, as announced in last week's *C. & D.* (p. 743), is retiring from business, is one of the most prominent figures in the Yorkshire Dales. Mr. Fairburn is a manager of Leyburn schools, and has had a long connexion with Leyburn Constitutional Club, being an active member of the committee. He was a member of the old Dales detachment of the Volunteers, an ardent worker for the Conservative and Unionist Association, has been closely connected with the Nursing Association and for some time was clerk to the Parochial Council. Mrs. Fairburn has been a keen worker for the Woman's Institute.

## Gazette

### Bankruptcy Acts

#### RECEIVING ORDER

**THOMAS, A. M.**, and **THOMAS, F. L. M.**, 2 High Street, Leominster, chemists and druggists.

#### RECEIVING ORDERS AND ADJUDICATIONS

**PICK, A.**, 1 Vulcan Place, Bedlington, chemist.

**CLARKE, LAURA E.**, Queen's Road, Nuneaton, "druggist."

**LEVER, J. N.**, 6 Hanover Gardens, Broughton Park, Salford, and 131 Great Ducie Street, Strangeways, Manchester, chemist.

## Coming Events

This section is reserved for advanced notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Tuesday, January 5

*Pharmaceutical Society, Wimbledon and District Branch*, Wimbledon Town Hall, at 8.30 p.m. Mr. F. G. Wells (chairman, Organisation Committee, Pharmaceutical Society) on "Is The Branch Necessary?"

*Pharmaceutical Society, Birmingham and District Branch*, Imperial Hotel, Temple Street, Birmingham, at 8.30 p.m. Sound film lecture on "Malaria."

### Thursday, January 7

*North London Pharmaceutical Association*, Manor House Hotel, Finsbury Park, at 7.30 p.m. New Year dance.

*National Pharmaceutical Union, West Ham Branch*, Church Institute, 27 Romford Road, Stratford, E.15, at 2.30 p.m. Mr. Mallinson on "The Chemists' Friends Scheme" and "The Stamp Duty Inquiry."

### Friday, January 8

*The South-West London Chemists' Association and Branch*, Balham Club, Ltd., Ramsden Road, S.W.12, at 8.45 p.m. Speakers from the Association of Pharmaceutical Employees, the Guild of Public Pharmacists, and the National Association of Women Pharmacists on "The Organisation of Employees in Pharmacy."

## Information Department


### INFORMATION WANTED

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# THE CHEMIST AND DRUGGIST

VOL. CXXVI.

January 2, 1937

NO. 2969

## Medicine-Stamp Duties Evidence

IN last week's *C. & D.* we completed the report of the inquiry so far as the examination of witnesses to date was concerned. At this stage it may be well to recall that in addition to Sir Charles E. Fitzroy, solicitor to the Board of Customs and Excise, and Mr. Flynn, an official of the Board, the following people offered themselves for examination: Dr. Fox, Government Chemist; Mr. Linstead, Pharmaceutical Society of Great Britain; Mr. Kenningham and Mr. Gwatkin, Proprietary Association of Great Britain; Mr. Mallinson, National Pharmaceutical Union; Mr. Spicer, who with Mr. Gwatkin gave evidence on saline preparations; Mr. Mortimer, Wholesale Drug Trade Association; Dr. Bone (chairman of the medico-legal department) and Sir Ewen Maclean (chairman of the Science Committee), British Medical Association; Mr. Kent and Mr. Young, National Federation of Grocers' and Provision Dealers' Associations; Mr. Parkinson (president) and Mr. Wren (secretary) of the Association of Wholesale Druggists and Manufacturers of Medicinal Preparations; Mr. Demenport (managing director) and Mr. Jackling (solicitor), F. W. Woolworth & Co., Ltd.; Mr. Henry (chairman), Mr. Edwards (vice-chairman) and Mr. Paige (secretary) of the Ethical Pharmaceuticals Association.

As we announced last week, no further meeting will be held until January 21, and our readers have ample opportunity to ponder over the questions and replies given at this inquiry. Comment has already been made in these columns in regard to the proceedings of the Select Committee (*C. & D.*, December 12, p. 679), but there are various other points which seem to be worthy of careful consideration by all branches of the drug trade. The first one is to direct attention to what seems to be the remarkable hostility on the part of certain members of the Committee towards pharmaceutical representatives. One member of the Committee was, in fact, called to order for giving evidence instead of hearing it.

As we have already suggested, pharmacy appeared to be on the defensive, and in our view the spokesman on behalf of the Pharmaceutical Society was not nearly emphatic enough in explaining away the apparently fixed idea that the pharmacist to-day has a monopoly in the sale of poisons. Everyone who has considered the situation brought about by the coming into force of the Pharmacy and Poisons Act, 1933, sees that there is no question of monopoly. As to the sale of commercial poisons, anyone may become a listed seller and sell them to his heart's content. The monopoly, so-called, which the chemist possesses is in regard to drugs with which the public is not familiar and which have relatively little commercial value. Mr. Linstead's evidence has already been briefly commented upon, but it is to be added that probably no other retailer in the country gives

greater service to the public—and service to the public appears to be the chief view-point of the Pharmaceutical Society's memorandum—than the chemist. The retail chemist is generally available either at his shop or his home at any time of the day or night. He opens his shop on Sundays, though chain stores decide for the public that on Sunday, at any rate, they can do without medicine. With very few exceptions, chain stores do not provide night service. If the line of demarcation is to be drawn between ethical and non-ethical preparations, as appears to have been another contention in the Society's memorandum, it would be a nice point to invite the definition of what an ethical preparation is. In the United States of America many manufacturing chemists are ethically-minded; yet it is doubtful whether any other country in the world is so habituated to the taking of so-called ethical products which can be purchased at drug stores without any restrictions.

Mr. Mallinson's evidence, as can be seen, was much more to the point; but it is perhaps unfortunate that so much should be made of public protection, which does not seem to enter greatly into the evidence given by Mr. Kent for the Grocers' Federation and Mr. Demenport for Messrs. Woolworth. Mr. Mortimer's evidence on behalf of the Drug Trade Association should be read carefully, because he directed attention to the value of the chemist as an adviser of the public, and with this point we propose to deal in detail later. Mr. Mortimer pointed out that the Government give the chemist a monopoly in the dispensing of National Health Insurance prescriptions—and what a monopoly it is! So far as we are aware, no other section of the trading community is liable to receive less money than is their just right, unless the debtor is a bankrupt. Yet this is what the so-called monopoly in regard to the dispensing of National Health Insurance actually means to the chemist. The evidence of the British Medical Association representatives was, as would be expected, also in regard to the protection of the public, and it may be that the Pharmaceutical Society are still engaged in following the lead of this august body.

Surely Mr. Kent was not serious in his suggestion that a chemist's unqualified assistant and a grocer's assistant were on an equal basis. A chemist's unqualified assistant has invariably served an apprenticeship and so has a specialised knowledge of medicines which a grocer's assistant cannot possibly possess. Moreover, he may be waiting to accumulate the necessary capital to enable him to qualify.

Mr. Wren, whose knowledge of the business in herbs is to be respected, is reported to have made the statement that a chemist does not sell herbal remedies because he does not understand them. Yet surely a qualified chemist who is also a druggist should be in a better position to understand and sell medicinal herbs than any other trader, provided he sets his mind to it and uses the knowledge he acquired during his apprenticeship. Interesting details of the volume of the trade of Messrs. Woolworth were given in Mr. Demenport's evidence. His views were well-defined and, in addition, he had a concrete plan to assist the Committee in obtaining the revenue in what in his opinion, at any rate, was a more satisfactory method of procedure. One of the points raised by Mr. Henry in his evidence as to whether or not a member of the public could buy an ethical medical article may refer to the products of his own company, but it is doubtful whether it applies generally, unless the term "ethical products" is not taken to refer to many which, by the firms who manufacture them, are so described.



## The Future of Mercury

CONSIDERABLE interest is being taken in the announcement made last week that the Spanish-Italian Mercury Cartel would cease to function at the close of 1936. The break between the two sources would appear to be based on political grounds, and the question of whether a new working arrangement may be made in the future depends upon the outcome of the struggle for supremacy that is still being waged in Spain. At the moment, we are informed, no arrangements have been completed for the sale of either Spanish or Italian metal in this or any other of the world's markets, and from first hands values are nominal. In the circumstances, it would be idle to attempt to forecast developments, but a review of relevant matters may be useful. In the first place, sales and consumption of mercury over the past twelve months have been exceptionally heavy. During the eleven months to the end of November this year, our imports totalled 1,676,380 lb., showing an increase of 100,000 lb. over the corresponding period of 1934, and 23,000 lb. in excess of the 1935 eleven months. Re-exports, however, decreased by nearly 80,000 lb. this year, compared with 1935. These figures indicate that, after allowing for increased consumption, consumers are probably holding stocks sufficient to carry them on for the next few months. We understand that shipments during 1936 from the sources to other markets have also been well above normal. Reliable reports indicate that the Almaden mines are still producing, but that difficulties are being experienced in transport and export. In Italy, of course, conditions are normal. While there may be some restriction in the free flow of future supplies from Spain, we do not anticipate any acute world shortage arising. As to prices, the Cartel has maintained a steady and recently increasing market value which, at its present level, must be satisfactory, and it has induced a substantial increase in Mexican production. While the two Continental sources have parted company for the time being, we shall not be surprised if the former medium for world distribution in London continues to function for both parties in the New Year.

## Gas and the Pharmacist

THE Home Office has issued a leaflet dealing with anti-gas training in regard to the scheme of medical instruction, and this instruction is "for the medical, dental, veterinary and nursing professions." This confirms the statement blandly made by the secretary of the Pharmaceutical Society at Mr. Davidson Pratt's meeting on December 1 that the Home Office and the Council of the Society had come to the conclusion that the pharmacist could best serve the community by remaining in his pharmacy; in other words, once more the pharmacist has been left out except in so far as he will be asked to keep supplies of dressings available. In addition, however, he may almost certainly find his premises turned into a casualty-clearing station, and may then gracefully retire to the back shop and ponder over the fact that while the pioneer worker on the gas-mask problem was himself a pharmacist before he became Lieutenant-Colonel Harrison, yet the rank and file of pharmacy are not considered to have any special value apart from keeping supplies of material. If we are not mistaken, during the Great War the expert knowledge that the pharmacist possesses as a result of his chemical training was of inestimable value in gas warfare, as members of the Special Brigade (R.E.) can testify. The necessity of giving instruction to the medical and nursing professions is understood. The veterinary surgeon will, of course, have to treat casualties occurring among the cats and canaries, and so on. The position of the dentist is not quite so obvious, except that he already has had experience in the use of "laughing gas." In the meantime the result of Sheffield's activities outlined in Mr. Leonard Stock's letter to the *C. & D.* (December 12, p. 690) will be awaited with interest.

## A Jenner Reminiscence

AS is well known, Edward Jenner, the discoverer of vaccination, was of a retiring disposition, and preferred a quiet life in the small Gloucestershire town of Berkeley to the more strenuous, if more remunerative, career of a fashionable London physician. He served his local community in various ways, often without payment; and one of these ways of service was the free vaccination of poor persons. For this purpose he used what would probably be described now as a summer-house in his garden. We are indebted to Mrs. Wyatt of Harrow for the loan of a negative taken many years ago by the late Mr. William Wyatt, Ph.C., showing this curious structure.

Of two almost contemporary descriptions of it, the earlier is that of John Baron, in the second volume (1838) of his "Life of Edward Jenner"; Baron, however, gives hardly any details. He writes: "It was constructed by the Rev. Mr.



JENNER'S "RUSTIC APARTMENT"

Ferryman"—to whose taste and skill in landscape gardening he proceeds to devote a whole page of the book. Baron calls it a "small rustic apartment . . . towards the southern extremity of the lawn," and adds: "Here in the summer mornings Jenner used to receive his poor neighbours who came for the purpose of vaccination."

The other description is to be found in an anonymous "Memoir of the Life of Edward Jenner" (1863), p. 66 of which is rather more explicit: "Jenner's house was originally an ancient structure adjoining the parish churchyard, called the Chantry, having belonged to a religious foundation. On the lawn a rustic house had been constructed with the roots and branches of an oak tree, and here Jenner's first operations in vaccination were performed. In his old age he used to describe the scenes which occurred with great humour. On one occasion, he said, 'The smallpox was at the heels of the people, and this drove them to my house in immense numbers. I was literally mobbed, driven into a corner, and made a prisoner, necessitated to submit to their will. "The man shall do me next." "No, he shan't; he shall do me," was the language I was obliged to hear and submit to. For many successive inoculating days the numbers that assembled were on the average 300.'"

Jenner regarded Berkeley as his home. He was born there in 1749; he commenced practice there in 1773; after many wanderings he finally returned in 1815 and remained there till his death in 1823. His house, as already recorded, adjoined the churchyard; and when the end came he was buried in the chancel of the parish church.



# Diet and Rheumatism

THE presidential address of Dr. Dorothy C. Hare to the section of therapeutics and pharmacology of the Royal Society of Medicine, printed in the Society's Proceedings for November, is entitled "A Therapeutic Trial of a Raw Vegetable Diet in Chronic Rheumatic Conditions." We have used a more general wording for the title of our abstract because, in her discussion of the results obtained in twelve selected cases, Dr. Hare takes into account the work of other investigators in this field, thus enlarging the scope of the subject.

The general classification adopted in the monograph is: (1) Muscular rheumatism; (2) osteo-arthritis; (3) rheumatoid arthritis. The patients were placed on "ordinary ward diet" in a hospital for a week before the special diet was begun. The diet régime was divided into two periods. Diet I contained no cooked ingredients. Diet II was practically the same diet with the addition of cooked foods. The ingredients of the diets and the food values will be seen from the tables. The calorie value of the diets was adequate to prevent undernutrition in most cases.

## Diet I Daily Rations

(A raw diet continued for two weeks only)

	Oz.	
Vegetables ... ..	14	Salads, tomatoes, roots.
Fruit: Citrus ... ..	8	Orange, lemon, grape fruit.
Apple ... ..	6	
Dried ... ..	4	Apricot, prune, raisins, etc.
Nuts ... ..	2	Brazil, cashew, hazel, etc.
Oats, crushed ... ..	3	Served after soaking, uncooked.
Sugar ... ..	1	One lump.
Salad oil ... ..	2	Or Heinz's mayonnaise mixed with oil.
Cream, 20 per cent. ...	3	
Milk ... ..	12	
Salt ... ..	none	
Fluids ... ..	unrestricted	Tea, water, etc.

## Diet II

(A modified diet given for periods of several weeks)

After two weeks on the Raw Diet I the following additions were made:—

Cooked foods ... ..	Vegetable soup.
	Eggs one
	Meat 2 oz.
	Bacon 2 oz.
	Bread 2 oz.
Uncooked foods ... ..	Butter 1 oz.
	Cheese 1 oz.
	Milk 8 oz. (Total milk = 20 oz.)
	Salt as present in the food, but no added salt.
	Oil and cream were reduced as necessary.

The dietitian visited the patients in the wards and their individual tastes were studied, so that the diet was well taken and all the patients, except No. 12, continued on the raw diet for a full two weeks. The patients were encouraged to eat all the food provided and the weight of what was left was noted. Of the twelve patients, eight felt definitely better within from one to four weeks; two improved up to five or six weeks and then had relapses; and two found no relief.

A diet of this character introduces several factors. The points which call for special consideration are:—(1) the form in which the foods are taken and its influence on digestion and assimilation; (2) the total amount and relative proportions of carbohydrate, protein and fat, and the total calorie value; (3) the vitamin content; (4) the mineral content.

(1) The rawness of the vegetables and fruits is the outstanding feature of the diet to the patient who is asked to eat it. A strong psychological impression is produced both on the patient and the onlookers, and by both it is readily assumed that if improvement results it is due to this factor. Uncooked vegetables and fruits demand much more work of stomach and intestines, but when prepared as described, the author and her collaborators were surprised how well the majority of the patients were able to take them.

(2) A diet of fruit, green vegetables and roots only, may be fairly adequate in carbohydrate, but it is very low indeed in protein and fat. The carbohydrate ration was 145 gm., from one-half to one-third the average intake, an amount, however, quite sufficient for maintenance if suitably balanced with other foods. The protein ration of 35 gm. was about half or less

than an average maintenance allowance. The fat was high, the value being made up with oil, nuts, cream, and milk. The calorie value was about 2,000 or rather more, sufficient to maintain a person of ten stone weight at light work. It was found adequate to maintain the weight of the patients treated, except in the case of obesity. The effects of the treatment were therefore not essentially due to undernutrition.

(3) Fresh fruits and vegetables provide a high allowance of vitamins C and B, and this fact must be taken into consideration as contributing to the benefits of the diet, especially when taken for long periods. The patients were questioned about their previous diets and in no case had a really deficient diet been taken, though some had taken excess of starch foods and very little vegetables or fruit.

(4) The sodium content of vegetable foods is very low, while the potassium content is high. Most of the sodium taken in an ordinary diet is derived from animal foods or added salt, and as Diet I included no meat or animal foods except a small ration of milk, and no salt was added, it was therefore extremely low in sodium. The amount in the daily rations was about 300 mgm., or one-tenth of the average minimum intake of the adult, which is given as 3,000 mgm. In the second diet small amounts of bacon, bread, and vegetable soups were given. These foods were prepared with salt in the ordinary way, cheese and eggs were also added, but as the amount of fruit and vegetables was still large and no added salt was given, definite sodium restriction was being continued. The body utilises sodium for the extracellular tissue fluids, and plasma contains about 350 mgm. of sodium to 20 mgm. of potassium; when there is a sudden shortage of sodium, extracellular tissue fluids cannot be retained, there is a rapid onset of diuresis and great loss of chloride in the urine, with a lowering of plasma chloride. A sharp fall of body-weight corresponds with this period of diuresis, and even though fluids are freely drunk, a state of dehydration persists as the water cannot be retained unless salt is given with it. Potassium salts are recognised as having a diuretic action, and the large amount of potassium in the vegetable diet may increase the effect of the sodium restriction. A vegetable diet is high in basic ash and low in acid, but whether a so-called "alkaline diet" has any effect on the rheumatic condition apart from the changes of mineral balance already discussed is a matter that needs further investigation. Acidosis can also lead to dehydration, as is well known in diabetic ketosis, and can be produced by giving a "high fat low carbohydrate" diet. In view of the results obtained, the author hopes that a low sodium diet will be given an extensive trial.

## Australian Sandalwood Oil

A SPECIES of true santal (*Santalum lanceolatum*) exists in certain parts of Australia. Its oil was, to some extent, investigated by A. R. Penfold, who stated ("Journal and Proceedings of the Royal Society of New South Wales," 62, 1928, 60): "A laevorotatory alcohol has been isolated with a specific rotation of  $-70.4^\circ$ , being the principal component of a sandalwood oil from the species *Santalum lanceolatum* which is used by the West Australian manufacturers to bring the optical rotation of their oils up to the requirements demanded by the B.P. for the East Indian oil." This oil, we believe, is not now used by the Western Australian distillers. An interesting paper appears in the current issue of the "Journal of the Chemical Society," 1936, 1619, by Bradfield, Francis, Penfold and Simonsen. During the examination of the essential oil of the wood of *Santalum lanceolatum*, Penfold, as above mentioned, isolated a new sesquiterpene alcohol  $C_{15}H_{22}O$ . The present authors have investigated this alcohol, which they have named lanceol, because, as they state, "there appears to be no structural relationship between the  $\alpha$ - and  $\beta$ -santalols and lanceol." Lanceol is a primary alcohol, which yields a hydrogen phthalate characterised by a crystalline strychnine salt melting at  $103^\circ-105^\circ$ . It also yields an allophanate melting at  $114^\circ-115^\circ$ . It is monocyclic. The ring in the alcohol is probably a 5-carbon ring, with two long side chains, which shows that its structure has nothing in common with the santalols.



# Slum Clearance and the Trader

By a Barrister

WITH the progress that is being made by local authorities in their slum clearance campaigns, the number of traders who find themselves in the uncomfortable position of having to part company with the premises where they may have for years past been carrying on their business is becoming increasingly large. Under their clearance powers a local authority may declare an unhealthy area to be a clearance area. Two alternatives are thereupon open to them. They may either make a clearance order in relation to the property in that area, or they may make a compulsory purchase order.

The effect of a clearance order is this. The authority will not themselves purchase the property, but they will thereby direct the owner to pull down the buildings he may happen to own. Where this course is taken by the authority no compensation will be recoverable except in one or two instances which we will consider.

On the other hand, where a compulsory purchase order is made, the authority will themselves purchase the property; but if the property is unfit for human habitation and has been included in the clearance area for that reason, compensation will not be payable for the buildings but merely for the land as a bare site clear of all buildings. Where this is the appropriate basis of compensation, it is hardly likely that a tenant will be entitled to any compensation at all in respect of the leasehold interest that he may enjoy in the property. In such a case the tenant may indeed suffer substantial loss. His lease, of course, if it still has any term to run before its expiry, will be cancelled, if necessary by an order of the Court; but the tenant will have to find other premises and to remove his business there, without recovering any compensation for disturbance or loss of goodwill from his landlord or from the local authority, except in one or two instances.

## Compulsory Purchase Order

If, however, the property is in fact fit for human habitation, but notwithstanding has been included in the clearance area, the authority will not be entitled to make a clearance order in respect of it. They must make a compulsory purchase order or else exclude the property altogether from the area. Where a compulsory purchase order is made in such circumstances, the authority will acquire the property, but the compensation will be on a much higher basis than in the case of unfit property in a clearance area which is being compulsorily purchased. The authority will be bound to pay the proper value of the property in the open market as compensation; and not only the land but the buildings as well will be included.

In such cases, accordingly, a tenant whose enjoyment of the term granted to him will thus be prematurely curtailed will be entitled to compensation for the loss of his leasehold interest. Property which is not in a clearance area may even be compulsorily purchased by an authority for the purpose of its slum clearance schemes. But such property only may be purchased which is adjoining to or which is surrounded by the clearance areas, though the right of purchase is subject to certain limitations. The purchase must be necessary in the former case for the satisfactory development or user of the cleared area, and in the latter for the purpose of securing a cleared area of convenient shape and dimensions. In both these cases the compensation will be on the higher basis of open market value, and will be recoverable in respect of both land and buildings; and the tenant accordingly will be entitled in such a case to make a claim for the loss of his leasehold interest.

These are the general rules with regard to compensation; but attention must also be drawn to certain additional rights which were principally conferred by the Housing Act, 1935. Thus, for example, if a house which is unfit has been included in a clearance area, but the house has nevertheless been well maintained, additional compensation will be payable. This compensation will be either a sum equal to the excess of the aggregate expenditure on maintenance during the preceding five years over one and a quarter times the rateable value, or one and a half times, or (in the case of owner-occupiers for at least three years previously to the order) three times the rateable

value, whichever sum is the greater. This compensation will be payable irrespectively of whether the authority compulsorily purchase the property, or whether, on the other hand, they merely direct the owner to pull it down, i.e., make a clearance order.

Another matter to which attention should also be drawn is the power of an authority to make *ex gratia* payments to persons displaced in consequence of the authority's slum clearance action. These payments may be made irrespectively of whether the property is in or outside a clearance area, and irrespectively of whether the owner has been ordered to demolish it (by clearance order) or the authority has compulsorily acquired the property.

It cannot be over-emphasised that there is no right at all to receive these *ex gratia* payments. It is a matter entirely in the discretion of the authority, and any legal proceedings taken for the purpose of compelling them to make the payment or to make a payment of a higher amount are bound to fail. These *ex gratia* payments may be in respect of removal expenses and, in the case of a trader, in respect of trade disturbance. The 1935 Act, however, conferred a further power on authorities to make a payment in respect of any loss involving personal hardship, suffered by a retailer in consequence of the probable diminution in the population of the locality as a result of the slum clearances; but this may be offset by any betterment that may be likely to accrue as the result of the future development of the locality in question.

## New Books

Ruddiman and Nichols.—*Incompatibilities in Prescriptions*. 5½ in. × 8½ in. Pp. 337. 13s. 6d. Chapman & Hall, Ltd., 11 Henrietta Street, Covent Garden, London, W.C.2. Sixth edition. [This American work by Dr. Ruddiman, former Professor of Pharmacy, Vanderbilt University, Nashville, now research chemist with the Ford Motor Co., and Dr. Nichols, Assistant Professor in Operative Pharmacy, Philadelphia College of Pharmacy and Science, is fitting evidence of the fact that dispensing is not the mechanical business it is sometimes supposed to be. Additions to *materia medica* frequently mean additional incompatibilities. An interesting section of the work is the criticisms on selected prescriptions. This should be of special value to pharmacy students.]

Trease, G. E.—*Textbook of Pharmacognosy*. 5½ in. × 8½ in. Pp. 671. Baillière, Tindall & Cox., 7 and 8 Henrietta Street, Covent Garden, London, W.C.2. [This, the second edition, has been brought into line with the new pharmacognosy syllabus of the University of London and the Pharmaceutical Society of Great Britain. The author, wisely we think, has retained certain drugs which, although no longer in the English syllabus, continue in common use because of their commercial importance or other reasons. A new chapter has been added in which each plant organ is described with cross-references to the drugs in each morphological group. The chapter on enzymes has been re-written and a set of habitat maps added.]

Remington's *Practice of Pharmacy*. 8th edition. 9 in. by 6 in. Pp. 2162. 45s. J. B. Lippincott Co., 16 John Street, London, W.C.2. [The additions and rearrangements distinguishing the new edition of this standard work from its predecessor of ten years ago are few but important. A section on hospital pharmacy (pp. 1933-52) appears for the first time; and there is new matter in various other sections, particulars of which are given in the preface. Part III contains all formulas official in the U.S.P. XI and the N.F. VI, with alternative weights and measures. The sections on manufacturing processes, biological products, public health services and "The Professional Pharmacist" are, as usual, full of practical and well-arranged material; and the book is profusely illustrated. The eighteen pages allotted to unofficial organic compounds and proprietaries constitute a useful record of chemical products, some of which are otherwise difficult to trace. The typography is of the customary excellence.]



# Alchemy without Tedium

IN a book entitled "Prelude to Chemistry," with the subtitle "An Outline of Alchemy: Its Literature and Relationships" (G. Bell & Sons, Ltd., Portugal Street, London, W.C.2: 12s. 6d.), Professor John Read, F.R.S., of the University of St. Andrews, has accomplished the very difficult task of presenting, in the course of just over 300 pages, an historical account of alchemy not only eminently readable but also just in its recognition of whatever was good in alchemical theory. Everyone who has attempted to read original treatises by alchemists is well aware of the labyrinthine windings of their sentences and of the difficulty of making sense of their descriptions and speculations.

Professor Read is under no illusion as to the complexity of his subject, and on occasion is brilliantly humorous in his treatment of typical absurdities found in the literature. He makes it clear that although "it is impracticable to assign the origin of alchemy to a definite place or time," it became a firmly established cult deriving elements from medicine, religion, chemistry, botany, astrology and other activities of the human mind. Incidentally, he offers the interesting suggestion that the term "Black Art," as applied to alchemical

chemical theory that the more it changes the more it is the same thing! The Doctrine of the Two Contraries seems to make a peculiar appeal to some deep-seated instinct in the human mind."

The sulphur and mercury of the alchemists, by the way, were not held to be identical with the elements bearing these names, nor was the Philosopher's Stone a rock-like substance. Let us instance another conception. "A definite association of mercury, sulphur, and salt with spirit, soul, and body respectively was made by Paracelsus . . . These relationships, presented in many forms, are among the most familiar features of alchemical literature." Or again:—

"In particular, the alchemists sought to apply to the inanimate world the principles of growth and reproduction which impressed them so much in the world of plants and animals. Thus, they were led to imagine that metals and ores grow in the earth, and further, that during the process of growth a 'base' or imperfect metal might change slowly into the perfection of gold. . . . it is well to recall that in the present century English peasants have held firmly to the belief that stones are replenished in tilled fields by fresh growth."

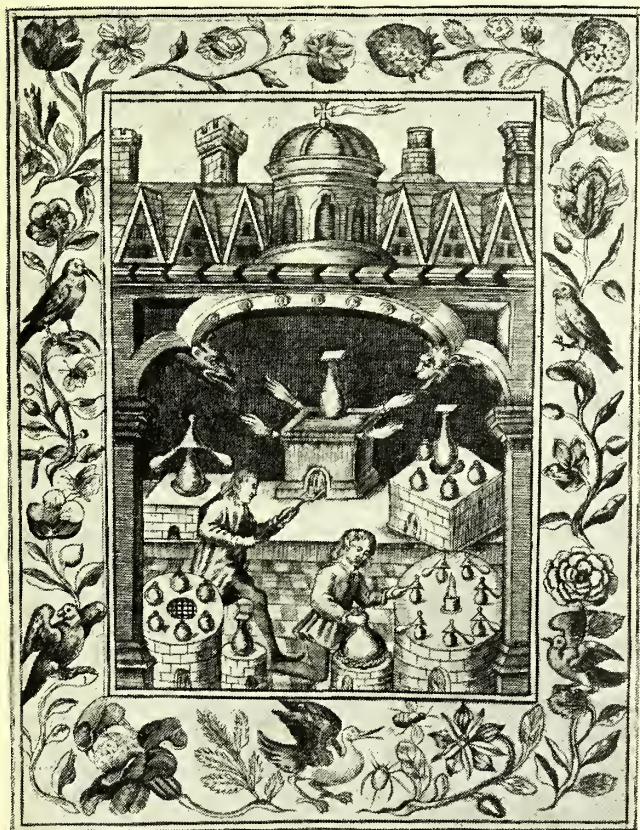
And Glauber "estimated the degrees of perfection of the metals from the number of sides of an enclosing square which made contact with their symbols."

## Two Types of Treatise

From a remote period there has existed side by side two widely different types of alchemical treatise, respectively characterised by Professor Read as purely utilitarian and purely mystical. "Some writers took an open pride in their use of cryptic language. . . . In ancient Egypt a knowledge of chemical secrets was the guarded prerogative of priests and kings . . . ." One consequence of this attitude was segregation of the results of experience, followed inevitably by stagnation. Boyle's "Sceptical Chymist" dealt a shrewd blow at alchemy, which ultimately faded out in the eighteenth century with the phlogiston theory as its "swan song"—one of Professor Read's many felicitous phrases.

To the origins of the symbols used in alchemy several captivating pages are devoted, and the Philosopher's Stone has a chapter to itself. "The fundamental idea of the Philosopher's Stone," we read, "was expressed by Arnold of Villanova in the following terms: 'That there abides in nature a certain pure matter, which, being discovered and brought by art to perfection, converts to itself proportionally all imperfect bodies that it touches.' " This quasi-philosophical explanation may be set beside a definition of alchemy by Pernety: "a science, and the art of making a fermentative powder, which transmutes imperfect metals into gold, and which serves as a universal remedy for all the ills of men, animals and plants." As Professor Read points out, there was in existence a good deal of evidence that might be regarded as supporting alchemical views on the transmutation of metals.

The work of reducing to some kind of order the chaotic mass of theory, practice and speculation known as alchemy must have been Herculean; and readers of this book will not fail to admire the skill with which the author has marshalled his facts. The leading figures of the centuries during which alchemical tenets held sway—Norton, Stolcius, Maier, Valentine and the rest—are presented in their appropriate settings; and the delightful illustrations (more than 100 of them, for the most part on art paper) are well partnered by the bibliography, a remarkably full and authoritative section of the book. An excellent example of his gift of satire will be found on p. 198, it is too long for quotation, but a sentence of this kind on an earlier page may be given: "This last reagent was a solution of sulphuretted hydrogen, known also somewhat surprisingly as 'Holy Water,' presumably on account of its mysterious odour, which was perhaps identified in ancient Egypt with the odour of sanctity." In setting forth the scope of his book Professor Read quotes this sentence: "The more science enters into our lives, the more it must be 'humanised,' and there is no better way to humanise it than to study its history." We owe him cordial thanks for clearing the approach to alchemy.



PAGE FROM NORTON'S "ORDINALL OF ALCHIMY"  
(British Museum)

operations, may have arisen from the black surface-colour of a fused mixture of lead, tin, copper and iron, a mixture which was the starting point in many processes. His chemical erudition makes suggestions of this kind (and there are several in the glossary) of more than casual importance.

When Professor Read sums up a theory or method of procedure at the end of a section of his book, he presents his subject-matter in terse, lucid phrases and at the same time reveals some of the obscurities inherent in alchemical theories. Here is a typical passage:—

"The Sun-god and Moon-goddess; Yang and Yin; masculine and feminine; sulphur and mercury; positive and negative; proton and electron: truly, it may be said of



# Customs and Excise Report

THE twenty-seventh report of the Commissioners of Customs and Excise, covering the year ended March 31, 1936, has been issued (price 3s. 6d.) by H.M. Stationery Office. This report, dated from the time when the present demarcation of duties between the Commissioners of Customs and Excise and the Commissioners of Inland Revenue was instituted, is in fact the eightieth relating to the Customs and the seventy-ninth relating to the Excise.

The net receipt from duties in the year under review was £303.8 million, an increase of £13.9 million over the year 1934-35. This revenue has been exceeded only twice in the history of these duties—in 1920-21 (nearly £334,000,000) and in 1921-22 (over £323,000,000). Duties imposed in recent years account for nearly 30 per cent. of last year's revenue. The details of revenue arising from the Ottawa Agreements are discussed on pp. 10-15 of the report.

## Spirit Duties

The receipts from spirit duties were £34.9 million, a surplus of £1.1 million on the Budget estimate, and an increase of £2.6 million on the previous year's amount. The following are the principal uses for which duty-free spirits have been authorised:—

<i>Ethyl Alcohol</i>	<i>Pure Methyl Alcohol</i>
In the manufacture of:—	In the manufacture of:—
Insulin.	Drugs and fine chemicals
Extract of liver.	(including recrystallisation).
Drugs and fine chemicals	Methyl esters.
(including recrystallisation).	Methyl derivatives of aniline,
Ethyl esters.	etc.
Ethyl derivatives of aniline,	Dyes and dyestuff inter-
toluene, sulphonic acids, etc.	mediates.
Dyes and dyestuff inter-	Formaldehyde.
mediates.	Nitrocellulose products (films,
Acetone.	leather-cloth, etc.).
Ether.	Electric lamps and wireless
Acetaldehyde.	valves.
Acetic acid used for:—	Photographic emulsions.
(a) Vinegar making.	Scientific research.
(b) Conversion into acetates,	
e.g., cellulose acetate, etc.	
Electric lamps and wireless	
valves.	
Explosives and smokeless	
powders.	
Ethylene.	
Photographic emulsions.	
Xylonite.	
Scientific research.	

The quantity of non-dutiable spirits used during the year was: Home-made (including hospitals, etc.), ethyl alcohol 19,102,355 proof gallons; methyl alcohol 4,992,486 proof gallons. In addition, there is an item of 6 gallons of imported methyl alcohol for use in hospitals, etc. The total for home-made non-dutiable spirits shows an increase of more than 4,000,000 gallons over the previous year's total. The following table (abridged from the original) gives details of the descriptions of methylated spirits issued during the past five years:—

Year	Power	Industrial ( <i>a</i> )	Mineralised	Total
	Bulk Gallons	Bulk Gallons	Bulk Gallons	Bulk Gallons
1931-32 ...	17,590	5,079,402	1,742,559	6,839,551
1932-33 ...	84,706	4,830,691	1,644,335	6,559,732
1933-34 ...	361,223	5,992,753	1,824,451	8,178,427
1934-35 ...	1,035,783	6,873,849	1,838,266	9,747,898
1935-36 ...	913,706	7,427,228	1,807,297	10,148,231

(a) Includes 281,062 gallons in 1931-32, 226,511 gallons in 1932-33, 274,127 gallons in 1933-34, 302,793 gallons in 1934-35 and 306,705 gallons in 1935-36, of industrial methylated spirits (pyridinised).

## Medicine Stamps and Licences

The statistics relating to medicine stamps and medicine licences are unusually topical on this occasion in view of the fact that a Select Committee on the incidence of medicine-

stamp duty is in session. The net receipts for medicine-stamp duty in Great Britain for the past five years are:—

Year (Ended March 31)	England and Wales	Scotland	Total
	£	£	£
1931-32 ... ..	961,579	13,376	974,955
1932-33 ... ..	867,334	14,672	882,006
1933-34 ... ..	763,955	14,076	777,131
1934-35 ... ..	693,767	15,279	709,046
1935-36 ... ..	731,760	16,170	747,930

The receipts for licences in Great Britain for the same period are:—

Year (Ended March 31)	England and Wales		Scotland		Total	
	No.	Net receipts	No.	Net receipts	No.	Net receipts
1931-32 ...	114,139	£ 28,527	6,978	£ 1,744	121,117	£ 30,271
1932-33 ...	124,064	31,011	7,411	1,852	131,475	32,863
1933-34 ...	132,015	32,998	7,918	1,978	139,933	34,976
1934-35 ...	138,913	34,713	8,260	2,065	147,173	36,778
1935-36 ...	145,976	36,497	8,602	2,150	154,578	38,647

Another table (abridged from the original) shows various uses of industrial methylated spirits:—

Use	Quantity used	
	1935	1936
	Bulk gallons	Bulk gallons
Rubber ... ..	54,605	58,077
Aniline and other dyes—solids ... ..	95,986	120,475
" " solutions ... ..	66,770	71,370
Inks ... ..	84,553	116,460
Soap ... ..	201,405	196,328
Hair washes and other toilet articles ... ..	209,111	199,588
Perfumery ... ..	351,009	360,413
Cattle medicines ... ..	4,789	4,375
Plant washes, insecticides, and sheep dips ... ..	5,394	5,279
Ether ... ..	82,620	78,528
Crude acetic and other esters (for sale) ... ..	26,694	9,000
Chloroform ... ..	521	—
Ethyl chloride and bromide ... ..	8	828
Solid medicinal extracts ... ..	109,543	127,285
Alkaloids and fine chemicals ... ..	104,680	122,444
Embrocations, liniments, and lotions ... ..	91,702	90,247
Surgical dressings ... ..	22,324	24,622
Capsules and other medicinal appliances ... ..	13,288	9,909
Disinfectants ... ..	15,910	22,743
Collodion ... ..	34,079	36,032
Photographic plates and other photo-graphic purposes ... ..	125,050	158,865
Hospitals, asylums, and infirmaries ... ..	213,790	220,504
Scientific purposes in the laboratories of works chemists, etc. ... ..	31,927	36,248
Educational and scientific purposes in colleges ... ..	13,301	14,644
Use in dispensing prescriptions ... ..	8,759	10,742
Use by dispensing chemists for preparations under Methylated Spirits (Amendment) Regulations, 1932 ... ..	16,342	20,550

Other sections of the report give details, with tables, of receipts from various items for the past few years. British wines brought a net revenue of £398,338 during 1935-36 (£326,897 in 1934-35), and table waters £329,437 (£332,739 in 1934-35). During the past year 1,053,227 oz. of saccharin was made in this country (duty £79,019), and 138 oz. was imported (duty £26). The total net receipts in respect of hydrocarbon oils (light and heavy) were £45,128,652 (£42,299,661 in 1934-35). Under the Import Duties Act, 1932, the net total under the heading "Chemicals, Drugs, Dyes and Colours" was £780,835 (£752,502 in 1934-35); and under "Oils, Fats and Resins, Manufactured" the net total was £110,576 (£123,414 in 1934-35).



# Olive Oil

## World Production and Commerce

**O**LIVE oil\* production fluctuates from year to year, the crop being considerably affected by climatic conditions. In Spain during the years 1926-31 there were notably wide variations in the size of the harvest. The competition of cheaper oils in the olive growing countries has led to protective measures so that olive growing has become to a large degree a stabilised industry. Empire production, which is relatively unimportant, includes an average of about 23,000 cwt. a year in Cyprus, probably about the same quantity in Palestine and negligible amounts in Australia.

WORLD PRODUCTION (million cwt.)

	1927-28	1928-29	1929-30	1930-31	1931-32	1932-33	1933-34	1934-35 (prov.)
Spain ...	13.1	3.8	13.0	2.2	6.9	6.9	6.1	6.2
Italy ...	2.9	4.4	5.7	2.4	4.4	4.1	3.2	4.3
Greece ...	1.4	2.0	1.6	1.9	2.0	2.6	2.1	2.4
Tunis ...	0.3	0.9	1.3	0.4	0.6	1.1	1.2	1.1
Turkey ...	0.6	0.6	0.3	0.5	0.2	0.7	0.2	0.9
Portugal ...	1.7	0.5	1.5	0.4	1.3	0.8	1.5	0.4
Algeria ...	0.4	0.4	0.5	0.3	0.5	0.3	0.2	0.3
Syria ...	0.1	0.2	0.3	0.2	0.2	0.1	0.3	0.2
French Morocco ...	0.1	0.1	0.2	0.4	0.2	0.2	0.1	0.2
France ...	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1
Other countries ...	0.1	0.2	0.3	0.1	0.4	0.1	0.3	0.2
World production ...	20.8	13.3	24.8	8.9	16.8	17.1	15.3	16.3

EXPORTS (thousand cwt.)

The quantity of olive oil exported also varies widely from year to year. The total exported from the six countries shown in the table below was exceptionally large in 1930, but in the four succeeding years there was a steady decline. Except in 1929 and 1933, Spain was the leading exporter. Shipments from Italy have shown a steady decline since 1929, when it was the chief exporting country.

	1927	1928	1929	1930	1931	1932	1933	1934	1935 (prov.)
Spain ...	1,092	2,350	1,011	2,104	1,848	1,239	849	1,031	1,222
Tunis ...	483	237	773	837	248	408	1,112	950	812
Algeria ...	118	429	255	483	163	360	164	129	515
Italy (a) ...	683	1,098	1,634	1,426	1,156	891	687	474	381
France (a) ...	166	170	128	247	217	196	207	181	248
Greece ...	160	149	240	142	145	548	457	133	202

(a) France and Italy are large importers of olive oil, imports into France considerably exceeding exports. These figures probably exaggerate the exports of domestic oil.

UNITED KINGDOM IMPORTS (thousand cwt.)

Imports into the United Kingdom, which tended to increase throughout the period, come chiefly from Spain, France and Italy. Appreciable quantities were supplied in some years by Algeria and Greece, the latter, in 1933, sending 95,000 cwt., the largest import from any one country during the period.

	1927	1928	1929	1930	1931	1932	1933	1934	1935 (prov.)
<b>Empire countries:</b>									
Total, Empire	3	3	1	(a)	(a)	(a)	(a)	(a)	(a)
<b>Foreign countries:</b>									
Spain ...	47	71	44	82	86	78	48	88	47
France ...	43	49	37	34	30	27	31	27	22
Italy ...	19	18	29	30	25	32	36	30	21
Algeria ...	6	31	16	27	13	23	13	17	49
Greece (b) ...	17	7	27	3	15	36	95	17	29
Turkey ...	24	2	25	5	3	(a)	2	7	13
Others ...	14	17	14	13	6	24	17	19	40
Total, foreign	170	186	192	194	178	220	242	205	221
Total imports ...	173	189	193	194	178	220	242	205	221

(a) Under 500 cwt. (b) Including imports of unrefined oil from Crete in all years except 1935.

DISTRIBUTION OF EXPORTS

The produce of the Colonial areas of North Africa is sent largely to France and Italy, but the producing countries in Europe enjoy much wider markets for their exports. The United States and Argentina are the most important markets outside Europe, taking a substantial part of the exports from Spain, Italy and France.

	Spain 1935		Tunis 1935		Italy 1934		France 1935		Algeria 1934	
	'000 cwt.	%	'000 cwt.	%	'000 cwt.	%	'000 cwt.	%	'000 cwt.	%
Total exports...	1,222	100.0	812	100.0	474	100.0	248	100.0	129	100.0
<b>Shipped to United Kingdom</b>	41	3.4	11	1.4	19	4.0	24	9.7	15	11.6
Canada ...	2	0.2	—	—	12	2.5	5	2.0	—	—
Australia ...	1	0.1	—	—	17	3.6	17	6.9	—	—
Netherlands...	1	0.3	—	—	5	1.1	—	—	8	6.2
Belgium ...	1	0.1	—	—	—	—	8	3.2	—	—
France ...	43	3.5	305	37.6	2	0.4	—	—	56	43.4
Germany ...	26	2.1	—	—	26	5.5	5	2.0	6	4.7
Norway ...	48	3.9	3	0.4	—	—	3	1.2	—	—
Italy ...	22	1.8	429	52.8	—	—	13	5.2	9	7.0
Switzerland...	1	0.1	—	—	14	3.0	29	11.7	—	—
Portugal ...	125	10.2	—	—	—	—	—	—	—	—
United States	318	26.0	48	5.9	186	39.2	15	6.0	11	8.5
Argentina ...	27	18.2	3	0.4	111	24.1	60	24.2	—	—
Uruguay ...	23	2.2	—	—	2	0.4	10	4.0	—	—
Brazil ...	12	1.0	—	—	31	6.5	—	—	—	—
Chile ...	14	1.1	—	—	17	3.6	—	—	—	—
Cuba ...	130	10.6	—	—	—	—	—	—	—	—
Morocco ...	72	5.9	—	—	—	—	5	2.0	20	15.5
Canary Islands	44	3.6	—	—	—	—	—	—	—	—
Japan ...	—	—	—	—	—	—	8	3.2	—	—
Other countries	68	5.7	13	1.5	29	6.1	46	18.7	4	3.1

PRINCIPAL IMPORTING COUNTRIES (thousand cwt.)

The United States and South America are the chief importers of olive oil. The largest European importers are France and Italy, although both produce considerable quantities and have a substantial export trade. French imports have exceeded exports in each of the years shown in the table, while Italy has been a net importer in 1931 and from 1933 to 1935.

The figures given in the following table include oil for edible and for manufacturing purposes. In the United States, the largest importer, rather more than one-half of the olive oil imported is edible oil.

	1927	1928	1929	1930	1931	1932	1933	1934	1935 (prov.)
<b>Empire countries:</b>									
United Kingdom	173	189	193	194	178	220	242	205	221
Canada ...	49	47	43	59	51	47	37	49	61
Palestine ...	41	58	52	18	1	9	42	37	41
Australia (a) ...	12	16	18	23	13	19	22	25	23
<b>Foreign countries:</b>									
United States...	1,109	1,171	1,366	1,454	1,066	1,178	1,119	909	1,110
France ...	267	391	439	703	454	540	546	550	659
Italy ...	11	946	892	1,184	1,613	746	731	558	551
Argentina ...	688	1,039	1,003	1,167	819	711	741	453	422
Cuba ...	114	169	150	187	129	158	170	164	(b)
Switzerland (c) ...	90	112	117	137	123	107	133	115	118
Uruguay ...	92	148	123	167	135	95	117	82	82
Brazil ...	86	179	88	164	52	104	95	96	81
Norway ...	63	64	93	53	26	76	63	44	65
Chile ...	(d) 109	(d) 238	70	60	47	16	7	6	25

(a) Years ended June 30. (b) Not yet available. (c) Includes almond oil and oleine. (d) Includes other oils.

\* "Vegetable Oils and Oilseeds." Imperial Economic Committee.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 31

THE GENERAL TONE OF MOST MARKETS at the close of the year is particularly strong and the outlook promising. During December values of most commodities have been persistently advancing, accompanied by a good volume of business and a shortage of supplies, which, in some few instances, is now becoming acute. The confidence in the leading commodity markets is remarkable in the face of the unsettled political and financial conditions on the Continent. Actual business during the week has been rather more than usual at the close of the year. The PHARMACEUTICAL CHEMICALS markets are experiencing the usual quiet demand, but business should quickly broaden out with the turn of the year. The higher costs of many basic raw materials is bound to affect values of these manufactured products in due course. POTASSIUM PERMANGANATE is firm but spot offers of PHENAZONE continue at keen prices; these two products become dutiable in January.

## Crude Drugs

Although there has been the usual lull in business this week, the tone is strong and values are fully maintained. All descriptions of CARDAMOMS are scarce and very firm. Desiccated COCONUT is again quoted dearer. COCOA BUTTER continues firm at a further advance. Exports of Norwegian COD-LIVER OIL show an increase on the year. ERGOT continues firm at good values. More inquiry for MATTO GROSSO IPECACUANHA this week. JAPANESE MENTHOL is steady. MERCURY is nominal from first hands. PEPPERS are appreciating in value. The boom in RUBBER continues, current prices being the highest since 1929. TRAGACANTH continues short and firm on spot. All descriptions of BEES' WAX are short and firm.

## Essential Oils

Most of the products in this market close the year on a strong note and at advanced values. The number of shipment markets which are now nominal as to values is remarkable, the sources stating they are not offering or have nothing to offer. For the time of year business has been good and spot holders are advancing their quotations in line with the generally firmer conditions. Limited stocks of ANISE (STAR) are firm at good figures; no shipment offers. BERGAMOT is quiet on spot; no shipment offers. A further advance in Brazilian BOIS DE ROSE on spot and the source is not quoting. CEDARWOOD is fully steady at the recent advance. A further sharp advance in both Ceylon and Java CITRONELLA, and business has been better. BOURBON GERANIUM is dearer to come forward. Shippers of HO (SHIU) report they are unable to quote; spot firmer. News from the source indicates a firm shipment market for Sicilian hand-pressed LEMON at increasing prices; spot market quiet. The forward price for French Guinea ORANGE is indicated sharply dearer, but it is difficult to get firm offers at the moment. PALMAROSA is sharply dearer, spot and forward. Singapore PATCHOULI is firmer for shipment. JAPANESE PEPPERMINT has been in good demand on spot; shippers' quotations for next year are firm at recent advances. PETITGRAIN is again dearer, with nothing offered for shipment. Spanish ROSEMARY and SPIKE are sharply dearer on spot; shipment nominal.

## Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	Dec. 23	Dec. 31
Amsterdam ...	Fls. to £	12·107	8·97	8·96½
Berlin ...	Mks. to £	20·43	12·20	12·20
Brussels ...	Belgas to £	nominal	29·05	29·12
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110	110
Madrid ...	Ptas. to £	25·22½	nominal	nominal
Milan ...	Lire to £	92·46	93½	93½
Montreal ...	Dol. to £	4·86½	4·90½	4·90½
New York ...	Dol. to £	nominal	4·91	4·90½
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	105½	105½
Prague ...	Kr. to £	164·25	139½	140
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	26	26
Zurich ...	Fr. to £	25·2115	21·36	21·36

Bank rate 2 per cent.

## Pharmaceutical Chemicals, etc.

BUSINESS in these products has been seasonally quiet, but a very fair contract inquiry for next year is being received. Salicylates continue steady. Potassium permanganate is steady at the advance.

ASPIRIN (TABLETS).—The following are agreed wholesale prices for the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BISMUTH SALTS.—Makers' scales of prices and terms of payment continue at the recent revision: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb.

BROMIDES.—Makers' scales of prices steady. No Continental quotations. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb., net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market dull: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Continental material, spot prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered. 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6½d.; 56 lb., 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material, pure, 56 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Small inquiry: one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2d.; smaller quantities, up to 1s. 6d. per lb.

CHLOROFORM.—Prices quoted by the makers are: two cwt., 2s. 5½d. per lb.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, 3d. per lb. less. Small bottles extra, from 5d. per lb. for 4-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Steady at former values: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Market has been quiet: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

GLYCERIN (B.P.).—As recorded last week, the home trade scale of prices have again been advanced 1/10 per ton, as follows:—

Contracts or single deliveries	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	1 ton and under 5 tons
Minimum deliveries off contracts	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
In glass packages						
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1 lb. bottles ... per lb.	1 2	—	—	—	—	—
1 Winchester ...	1 1	—	—	—	—	—
3 Winchester ...	1 0	—	—	—	—	—
6 Winchester ...	0 11½	—	—	—	—	—
12 Winchester ...	0 11	—	—	—	—	—
Nett. Bottles extra.						
Tins, 14 lb. ... per cwt.	102 6	98 0	97 0	94 0	93 0	89 0
Tins, 28 lb. ...	99 6	95 0	94 0	91 6	90 6	86 6
Tins, 56 lb. ...	96 6	93 0	92 0	89 0	88 0	84 0
Drums, 1 cwt. (charged 20s.)	—	88 6	87 6	84 6	83 6	79 6
Drums, 2½ cwt. ( " 60s.)	—	—	85 6	82 6	81 6	77 6
Drums, 5 cwt. ( " 75s.)	—	—	—	82 0	81 0	77 0
Drums, 10 cwt. ( " 100s.)	—	—	—	—	80 6	76 6

Tins and cases free, glass packages and iron drums charged extra and returnable. Drums credited in full only if returned carriage forward in good condition within six months of date of invoice. Contracts are booked for delivery over 12 months. Two-and-a-half per cent. monthly account except where stated net. Fourteen lb. and over carriage paid direct ex works, smaller quantities carriage paid if forming part of a carriage paid order. Any style and size of package may be assorted to secure relative quantity price. The prices are quoted subject to an undertaking on the part of the buyer not to resell at prices and terms below the scale for such quantities current at the time the resale is made.

**HEXAMINE.**—Makers' prices for bulk quantities are steady: B.P. powder at about 1s. 2½d.; free-running crystals from 1s. 3d. to 1s. 6d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, one cwt., 1s. 4d.; 14 lb., 1s. 8d.; smaller parcels, up to 2s. per lb., carriage paid.

**IRON QUININE CITRATE.**—Makers' prices are as follows: not less than 100 oz., 10½d., in 100-oz. tins; 10½d., in 25-oz. tins; 11d., in 16-oz. bottles; 11½d., in 4-oz. and 8-oz. bottles; 1s. 0½d., in 1-oz. bottles; less than 100-oz. lots, from 11d. to 1s. 4d. per oz., according to packing and quantity.

**PARAFORMALDEHYDE.**—Routine small business: 100 per cent. powder, quantities in kegs, 1s. 1d.; smaller parcels, 1s. 1½d. to 1s. 6d. per lb., as to quantity.

**PHENACETIN.**—Values keeping steady, market quiet: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

**PHENAZONE.**—Continues unsteady at keen prices on spot: crystals, five cwt., 8s. 7½d.; two cwt., 8s. 9½d., and less, up to 9s. 6d. per lb., with powder 2½d. per lb. extra.

**POTASSIUM PERMANGANATE (B.P.).**—Market fully steady: spot, quantities, in drums, 9½d. to 9¾d.; druggists' parcels, 10½d. to 1s. per lb., as to quantity.

**POTASSIUM SULPHOGUAIACOLATE.**—Spot quotations continue at about 6s. 2d. to 6s. 4d. per lb., as to quantity.

**QUININE SALTS.**—Convention prices continue nominally unchanged. Quoted in sterling only: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloids, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

**RESORCIN.**—British material only available for this market: crystals one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. 6d. per lb.

**SALICYLIC ACID (B.P.).**—Market steady but quiet: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

**SODIUM SALICYLATE (B.P.).**—Makers' quoted prices are unchanged: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 11d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

**SULPHONAL.**—Market is dull and irregular: crystals or powder, two cwt., 15s. 3½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

**TARTARIC ACID (B.P. CRYSTALS).**—Quoted unchanged: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

**THEOBROMINE.**—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

**THYMOL.**—Market remains quiet, synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 3d.; 28 lb., 6s. 9d.; 7 lb., 7s. per lb.; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10½d.; 28 lb., 9s. 5½d.; 14 lb., 10s. 6d. per lb.

**VANILIN.**—Convention prices steady, small business: ex clove oil or guaiacol, five cwt., 12s. 9d.; one cwt., 13s.; 56 lb., 13s. 3d.; less, 13s. 9d. per lb.

### Crude Drugs, etc.

**AGAR.**—Market is quite steady forward; spot business quiet: spot, Kobe No. 1, 2s. 7½d. to 2s. 9d., as to quality; No. 2, 2s. 6d.; Yokohama No. 1, 2s. 5d. per lb.; shipment, new crop, January-February, Kobe No. 1, dearer at 2s. 4d. per lb., c.i.f.

**ALOES.**—Occasional inquiry for Curaçao; values fully steady: Cape, spot, 6os. to 62s. 6d., as to quality; shipment, prime, 57s. 6d. per cwt., c.i.f. Curaçao, 95s. to 115s., as to quality; shipment, 92s. 6d. to 95s. per cwt., c.i.f.

**ANIMONY.**—Chinese crude, January-February shipment is dearer at £29 10s. c.i.f. English regulus, spot, £72 to £73 per ton.

**BALSAMS.**—Small spot inquiry. *Tolu*, 1s. 9d.; *Canada*, 2s. 7d.; *Copaiba*, 1s. 2d.; *Peru*, 5s. 4d. per lb., spot.

**BUCHU.**—One or two spot inquiries, values barely steady: spot, rounds, 2s. 3d. to 2s. 5d.; ovals, about 2s. per lb. in bales, ex store.

**CAMPHOR.**—Fair demand on spot, market steady: Japanese, spot, tablets, 2s. 5d.; powder, 2s. 2½d.; slabs, 2s. 2½d. per lb., duty paid; shipment, tablets, 2s. 1½d.; powder, 1s. 11d.; slabs, 1s. 10½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and 1 oz., 3s. 6d. per lb. Contracts at special prices.

**CANTHARIDES.**—Limited spot demand: spot, Russian, 6s.; Chinese, 1s. 10d. to 2s. per lb., as to quantity; shipment, 1s. 7½d. per lb., c.i.f.

**CARDAMOMS.**—Owing to the continued extreme scarcity of supplies this market is very firm. Some Mangalore, now landing, may be available from 5s. 1d. Some bold pale Indian, 6s. Bombay seed, dearer for shipment, 4s. 10d., c.i.f. Green Aleppy, 3s. 7d., c.i.f.

**CASCARA SAGRADA.**—Values fully steady, business quiet: spot, 1933 peel, 65s.; 1936 peel, 56s. 6d. per cwt., ex store. Shipment, 1934 peel, 50s.; 1936 peel, 52s. per cwt., c.i.f.

**CLOVES.**—Market has remained quiet. Zanzibar, spot, 8½d.; shipment, January-February, 7½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, January-February, 7d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended December 26 were 75, and the deliveries 195, leaving a stock of 4,731. From January 1 to date the landings of Zanzibar have been 5,129 and the deliveries 4,285. Landings of Madagascar for the week ended December 26 were nil, and the deliveries 15, leaving a stock of 716. From January 1 to date the landings of Madagascar have been 3,177 and the deliveries 3,822 packages.

**COCOA BUTTER.**—At the further advance the market is firm: prime English, 1s. 3½d. to 1s. 4d. per lb.; foreign, 1s. 3d. to 1s. 3½d. per lb., as to quantity.

**COCONUT (DESICCATED).**—Values are again dearer, market fully steady: spot, fine, 30s. 3d.; medium, 29s. 9d. per cwt.; shipment, halves, January, 29s. 6d.; February, 29s. 6d. per cwt., c.i.f.

**COD-LIVER OIL.**—Bergen reports the shipment market fully steady. Shipments to December 26 totalled 90,461 barrels, compared with 88,363 barrels at the same date in 1935 and 103,927 barrels in 1934. Finest Lofoten steam-refined non-freezing medicinal oil, 96s. to 97s. per barrel, c.i.f. London. Newfoundland non-freezing medicinal oil, about 130s. per barrel, ex store. British non-freezing medicinal oil is quoted at 92s. to 100s. per barrel, c.i.f. London, duty free, while quotations from other home source are at higher figures.

**DERRIS ROOT.**—Fair amount of inquiry for shipment, with prices keeping steady at 8½d. to 9d. per lb., c.i.f., basis 17 per cent. ether extract.

**ERGOT.**—On spot Spanish/Portuguese is in small supply and quoted from 5s. 6d. to 6s. per lb. A parcel of Russian is mentioned at 5s. For shipment, Portuguese is firm at 5s. 6d., c.i.f., and Spanish is at 4s. 6d., c.i.f., but the currency difficulty is holding up business.

**GENTIAN.**—Continues firm and in small supply, with spot quoted from 52s. 6d. per cwt., ex store.

**GINGER.**—Market is firmer: West African, spot, 62s. 6d.; shipment, January-March, 52s. 6d. per cwt., c.i.f.; Jamaican, spot, bold, in barrels, 85s. to 90s.; grinding quality, 60s. to 62s. 6d. per cwt., ex store.

**HONEY.**—Market remains quiet, values steady. Jamaican, 42s. to 50s. for dark manufacturing to pale set. Californian, white clover, 52s. 6d., duty paid. Canadian, white clover, 50s., ex store. Mexican firm at 39s. 6d., duty paid.

**HYDRASTIS.**—Business of no importance: spot, 12s. 6d. to 12s. 7½d., as to quantity; shipment, 12s. 6d. per lb., c.i.f.

**IPECACUANHA.**—More inquiry and the market is firm. No shipment offers. Matto Grosso, B.P. test, 7s. to 7s. 3d. per lb.; shipment, nominal.

**LIQURICE ROOT.**—Occasional small business on spot in natural root at about 12s. 6d. per cwt.

**LYCOPodium.**—Fair supplies available on spot; quoted in the region of 3s. 11d. per lb., ex store.

**MENTHOL.**—Fair amount of inquiry on the market. K/S brands, spot, 12s. to 12s. 1½d., as to brand; in bond, 11s. Japanese shippers quote January-February, 10s. 6d., c.i.f., and January-March, 10s. 5d., c.i.f., with re-sellers of October-December at 10s. 1½d., and January-March at 10s. per lb., c.i.f. CHINESE, B.P., is offered on spot at 12s., and finds a steady sale. No shipment offers of new crop. English synthetic is quoted unchanged from 7s. 6d. to 10s. 6d. per lb., as to quality and quantity.

**MERCURY.**—Spot and shipment prices are nominal from first hands at unchanged prices. Editorial comment on the position on p. 14.

**OPIMUM.**—Occasional spot business at steady prices: spot, Turkish, 1s. 3d. per unit, landed and duty paid. Persian, 1s. per unit, in bond.

**PEPPER.**—Following further appreciations values have fallen back slightly, but close better on the week; business fair. Lampong, in bond, 3½d.; shipment, January-March, 3½d.; March-May, 3½d.; April-June, 3½d., c.i.f. Tellicherry, spot, 4½d.; shipment, January-February, 41s. 6d., c.i.f. Aleppy, spot, 4½d.; shipment, January-February, 41s. 6d., c.i.f. White Muntok, in bond, 5½d.; shipment, January-March, 5½d. per lb., c.i.f.

**PIMENTO.**—Values are fully steady, business quieter: spot, 8½d. per lb.; shipment, January-February, 75s. 6d. per cwt., c.i.f.

**RHUBARB.**—Moderate business on spot, mostly in rough round, market fully steady. Shensi, 3s. 9d. to 4s.; shipment, 3s. 6d., c.i.f.; pickings, 2s. 3d. to 2s. 6d. Rough round, all pinky, 1s. 7½d.; three-quarters pinky, 1s. 6½d.; ordinary quality, 1s. 6d. per lb.; shipment, all pinky, 1s. 4½d. per lb., c.i.f.

**RUBBER.**—The market has been active since the holiday break and values show a further sharp advance, reaching the highest figures since 1929. Closing irregular with values below the best, fair business. Standard ribbed smoked sheet, spot, 10½d.; January, 10½d.;



February, 10½d.; March, 10½d.; April-June, 10½d.; July-September, 10½d.; October-December, 10½d. per lb.

**SARSAPARILLA.**—Small spot business, market steady: spot, Jamaican, grey, 1s. 2d.; native, mixed colours, 11d. to 1s. per lb., as to quantity, spot.

**SEEDS.**—**ANISE.**—Bulgarian, 30s., spot, duty paid. **CANARY.**—Spot, Mazagan, 29s.; Turkish, 25s. 6d.; Plate, 26s.; Spanish, 70s.; all duty paid. **CARAWAY.**—Dutch, 35s. 6d., spot, duty paid; 31s. 6d., f.o.b. Holland. **CORIANDER.**—Market firm; Morocco, on spot, is quoted at 14s., duty paid, and 13s. to 13s. 3d., in bond. **CUMIN.**—Morocco offered at 32s., spot, duty paid. **FENNEL.**—Indian, 32s., spot. **FENUGREEK.**—Morocco is 14s. spot, duty paid. **MUSTARD.**—English 22s. to 32s. 6d. per cwt., according to quality.

**SENEGA.**—Market remains very slack: spot, 1s. 6d.; shipment, about 1s. 6d. per lb., c.i.f.

**SENNA.**—Inquiry has been rather better than usual at this period of the year, with prices remaining unchanged from those detailed in the last report.

**SHELLAC.**—Market is steady at better values on the week: spot, standard TN orange, 56s. to 61s.; fine orange, 62s. 6d. to 125s.; pure button, 60s. to 65s. per cwt., spot. For delivery, TN, March, 57s.; May, 58s. For arrival, TN, January-February, 55s. per cwt., c.i.f.

**SLIPPERY ELM BARK.**—Market is quiet but fully steady: spot, wired bundles, 1s. 4d.; grinding quality, 7½d. per lb.

**TRAGACANTH.**—White grades continue very scarce, with No. 1 druggists' quality at £60 per cwt. Low grades have been in good demand up to £8 10s. per cwt., ex store.

**WAX.**—**BEES'**—Market is firm and shipment offers are restricted: Calcutta, bleached, spot, 137s. 6d.; shipment, January-February, 135s., c.i.f. Abyssinian, spot, none offering; shipment, January-February, 120s., c.i.f. Benguella, no spot; shipment, 114s., c.i.f. Conakry, no spot available; shipment, 117s. per cwt., c.i.f. Dares-Salaam, spot, 127s. 6d.; shipment steady at 125s. per cwt., c.i.f. **CARNAUBA.**—Offers from source are very limited; near positions dearer. Fatty grey, spot, 157s. 6d.; afloat, 150s.; shipment, December-January, 150s.; January-February, 147s. 6d., c.i.f. Chalky grey, spot, 155s.; afloat, 149s.; shipment, December-January, 147s. 6d., c.i.f. Primeira, spot, good quality, 210s.; f.a.q., 200s.; afloat, 195s.; shipment, December-January, 190s., c.i.f. Mediana, spot, 205s.; shipment, 185s. per cwt., c.i.f.

### Essential Oils, etc.

Most products in this market are firm, with values showing further appreciation. Stocks are at a low level and the sources are not quoting in many instances. Business has been quite good for the time of year.

**ALMOND.**—Small demand, with foreign oil at keen prices: English-made, cwt. lots, 3s. 5d.; smaller parcels, 3s. 7d. per lb.; foreign, cwt. lots, 3s.; smaller parcels, 3s. 3d. per lb. French, bitter, 6s. 6d. per lb.

**ANISE (STAR).**—Steady demand on spot, mostly for drums and tins, values firm; no shipment offers: spot, leads, 3s. 6d.; tins, 3s. 4½d.; drums, 3s. 3d. (paid) per lb., ex store.

**BERGAMOT.**—No further supplies offered at the source, shipment price nominal: on spot, the demand has been quiet, but values are firm at 11s. 6d.; 11s. 9d. and 12s. per lb., ex store, as to quantity and brands.

**BOIS DE ROSE.**—This market is firm; spot supplies limited and the source has dried up; Brazilian, spot, 5s. 4½d. to 5s. 9d. per lb., as to quantity, and tending dearer.

**CAJUPUT.**—Market steady, quiet business: B.P., 1s. 10d. to 2s. 3d. per lb., as to quantity.

**CANANGA.**—There are spot sellers at about 6s. 9d. to 7s. per lb., as to quantity, with little demand.

**CARAWAY.**—Fair inquiry, values steady: Dutch, twice rectified, 7s.; crude, 6s. 8d. per lb., landed and duty paid.

**CASSIA.**—Rather more inquiry, with shipment quoted at 2s. 7½d. per lb., c.i.f.: spot, 3s. 1½d. for good quality oil.

**CEDARWOOD.**—Values are fully steady at the recent improvement: African, in drums, 1s. 1½d. to 1s. 1¾d.; smaller packages, 1s. 3d. per lb. American, in drums, 1s. 1½d. to 1s. 1¾d.; smaller packages, 1s. 3d. per lb.

**CITRONELLA.**—Further appreciation in values and spot is much steadier, with more inquiry being received: Ceylon, spot, drums, 1s. 4½d. to 1s. 6d.; smaller parcels, 1s. 7d. to 1s. 9d.; shipment, drums, 1s. 4½d. per lb., c.i.f. Java, spot, drums, 1s. 11d.; smaller parcels, 2s. to 2s. 3d.; shipment, drums, 1s. 9½d. per lb., c.i.f.

**CLOVE.**—Some Madagascar oil is being quoted keenly on spot in 400-lb. drums; other descriptions continue firm. English distilled oil, 4s. 9d., in cwt. lots. Zanzibar distilled bud oil, 4s., in drums. Madagascar, spot, drums, 3s. 11d. to 4s.; smaller packings up to 4s. 2d. per lb., shipment, nominal.

**EUCALYPTUS.**—Market is quiet but values are firmly maintained: Australian, 70 to 75 per cent., 1s. 7½d., in tins, and 1s. 7d., in drums; 80 to 85 per cent., 1s. 8½d., in drums, per lb., landed;

higher prices for small lots on spot. Shipment quotations are firm: 70 to 75 per cent., 1s. 4½d.; 80 to 85 per cent., 1s. 5½d. per lb., c.i.f., January-February shipment. Spanish, 70 to 75 per cent., 1s. 8d. per lb., ex store.

**GERANIUM.**—Last week's report that Bourbon is dearer and in limited supply at the source is confirmed: Bourbon, spot, 17s. 3d. to 19s. 6d.; shipment, 17s., c.i.f. Algerian, spot, 16s. to 17s. 9d.; shipment, 15s. 3d. per lb., c.i.f.

**HO (SHRU).**—Firm conditions are reported and the latest advices from the source state there are no offers for shipment: spot is dearer and holders are reserved at 1s. 8½d. to 2s. per lb., as to quality and quantity.

**JUNIPER BERRY.**—Market steady, business light: spot, from 3s. to 3s. 3d. per lb., as to quantity.

**LAVENDER.**—Not much business moving but spot values tend somewhat dearer: French, 38 to 40 per cent., ranges from 15s. to 17s. 3d. per lb., as to source and quantity, with some blended oils at cheaper prices. Lavandin is offered from 6s. 3d. to 8s. 3d. per lb., as to quality and quantity.

**LEMON.**—A report from a usually reliable source states that producers of Sicilian have sold all the old crop oil; quantity in the hands of exporters not known. The crop of new oil is confidently expected to be well below normal, and the price asked for genuine unadulterated hand-pressed oil, January-February shipment, is up to 12s. 2d. per lb., c.i.f. Machine-made oil is indicated at 10s., c.i.f., but exporters are waiting for news as to what quality oil will be required to secure export permits under the Citrus Oils Regulations, which come into operation in the new year, before quoting firm. On spot there are sellers of hand-pressed oil from 11s. to 12s. per lb., as to quantity and brand. No Californian cold-pressed oil available, but a very limited quantity of regular, distilled, in small drums is offering at 6s. 2½d. per lb., landed.

**LEMONGRASS.**—Firm conditions are again reported here. Shipment, prompt, 1s. 7½d.; distant, 1s. 8½d. per lb., c.i.f.: spot, about 2s. per lb., for small parcels.

**MANDARIN.**—New crop oil is quoted for shipment at about 15s. 3d. to 15s. 6d. per lb., c.i.f.

**NUTMEG.**—Spot holders of American oil are quoting at about 5s. 3d. to 5s. 4d. per lb. for small parcels.

**ORANGE.**—Sicilian sweet oil is quoted for shipment at about 13s., c.i.f., and bitter at about 10s., c.i.f. Shipment offers of French Guinea oil are still difficult to obtain, but information from the source states market is firmer, with a price of 3s. per lb., c.i.f., mentioned. Californian, spot, one case, 4s.; two or more cases, 3s. 10d.; small drums, 3s. 9d.; large drums, 3s. 8½d. per lb., business quiet.

**PALMAROSA.**—Market is firm at the further improvement: spot, 6s. 4½d. to 6s. 6d. for pots; smaller quantities, up to 6s. 7½d.; shipment, sharply dearer at 6s. 3d. to 6s. 6d. per lb., c.i.f.

**PATCHOULI.**—Singapore oil is quoted dearer for shipment at about 15s. 3d., c.i.f. Offers of oil to arrive at about 16s. to 16s. 3d. per lb. for small parcels. Seychelles not quoted.

**PEPPERMINT.**—Quite a good spot demand, consumers requiring supplies pending arrival of O/D oil. Spot, 5s. 1d. to 5s. 1½d. per lb. Japanese shippers quote January-February, 5s. 1d. and January-March, 5s. 3d., c.i.f., and report market firm. Business done in October-December at 4s. 6d., c.i.f., and buyers. January-March sellers at 4s. 7½d. and buyers at 4s. 6d., c.i.f. CHINESE oil on spot sells slowly at about 5s. per lb. No offers of new crop for shipment, shippers stating they are not interested in current prices. The American natural oil is quoted for shipment at about 2 dollars 30 to 45 cents per lb., c.i.f., but little interest is shown; spot supplies are offered at comparatively cheaper prices.

**PETITGRAIN.**—This market continues firm and is again dearer on spot. The source reports no offers for shipment: spot, cases, 3s. 10d.; smaller parcels, up to 4s. 1½d. Shipment nominal. Spot supplies stated to be limited.

**ROSEMARY.**—Spot values are sharply dearer, with supplies of Spanish oil limited and held for 3s. 4½d. to 3s. 9d. per lb., as to quantity. No reliable shipment offers.

**SANDALWOOD.**—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; no second-hand offerings. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, 7s. 3d. per lb. Australian oil continues steady: five cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

**SASSAFRAS.**—Market is steady, with spot quoted from about 3s. 6d. to 3s. 9d. for natural oil. Artificial oils at cheaper prices.

**SPEARMINT.**—Market remains quiet: spot, 8s. 9d. to 9s.; shipment, 8s. 3d. to 8s. 4½d. per lb., c.i.f.

**SUKE.**—All the cheaper spot offers of Spanish oil have been withdrawn and good quality oil is now firm at 5s. 6d. per lb., and more for small lots. French oil, spot, 7s. per lb., ex store.

**VFTHVFT.**—The source reports that supplies of Bourbon are short and quoted dearer.

**WORMSEED.**—Market remains quiet: U.S.P. oil, spot, 9s. to 9s. 3d.; shipment, 8s. 7½d. per lb., c.i.f.



# Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## Another Job for Pharmacists?

SIR,—Lest it appear that I am in constant conflict with Mr. R. Cecil Owen, for whose wisdom and views I entertain profound respect, may I say *ab origine* that it is only with parts of his letter "Another Job for Pharmacists" that I disagree, and even with them not entirely *in toto*? In the course of his criticism of the medical profession, of whose credulity and intellectual mediocrity he has previously inferred his conviction, he utters severe strictures on their tendency towards vitamin quackery. This is hardly fair. It is surely outside the province of the pharmacist to suggest that doctors prescribe vitamin-containing medicaments in a haphazard, irresponsible fashion or that they have not grasped the elementary facts of the subject. The existence of vitamins has been recognised for many years, and their nature and function have been taught in accordance with this knowledge, though their number, subdivision and inter-relationship have of late become more scientifically investigated as identification and isolation have grown more easy to effect. That there is an irritating plenitude of proprietary vitamin preparations is obvious from the bulk of the morning mail. Many scientific products are commercialised, but they are not necessarily fraudulent because numerous. Again, it may be desirable to restore a vitamin-starved patient with these therapeutic, if perfectly natural, substances in shorter time than requisite to effect a remedy with simple dietetic treatment. The universal clamour for these accessory food factors in the guise of medicine is certainly not to be countenanced, and it argues well for the disinterestedness of Mr. Owen that he advocates, for the maintenance of public health, discontinuance of the popular practice of ingesting uncontrolled and unnecessary metabolic catalysts.

Dietetics will loom larger in medicine. The expert is already installed in most hospitals. Expressing a purely personal view which must withstand unpopularity, I would suggest that it will never be possible to estimate accurately the exact calorific requirements of the individual. Too many and inscrutable are the problems which confront a science, in this respect, inexact, to correlate dietary intake with catabolism. Under surveillance it is difficult; without it, impossible; domestically, impracticable. As to vitamins, dosage is unknown. Physical individualism, race, the stage or progress of disease and other concomitant pathological conditions render vitamin regulation unattainable, while the selection of a perfect diet is an empirical accident. Clearly the broad principles governing medication by appropriate diet present little difficulty. Graves's disease, Bright's, Addison's, epilepsy, hyperpiesis, even the malady of which Corrigan's pulse is a sign, to mention a few, have each their indications in terms of food. Yet it seems to me that, as in the case of a diabetic whose blood sugar rises and falls at his discretion, or perhaps indiscretion, a chart of readily computed food values must always be found in the notebook of the physician. Food and exercise are indissolubly complementary. Advice with regard to both cannot easily be apportioned between pharmacist and physician. Rather than raise hopes and expectations which will never become a routine, I would prefer to advance the chemist's exclusive right and prerogative of dispensing.—I am, etc.,

JOHN SHIEL,

L.R.C.P., L.R.C.S., L.M.,  
Ph.C., Barrister-at-Law.

Dublin.

SIR,—When the pharmacist is finding that dispensing is not the profitable section of his business it used to be, and when other traders are casting envious glances at his calling (*C. & D.*, December 26, p. 750), it is well to be reminded that there are other tasks for which he may be fitted, either by training or experience. I have been interested in reading the suggestion of a well-known medical publicist that "a dietician would be a helpful accessory to a chemist's shop" (p. 759), and the remarks of one of your correspondents on the subject. There is sound sense in this suggestion. So far as proprietary foods, particularly of the invalid type, are concerned, my impression is that the pharmacist is losing a proportion of this trade—or rather has already lost it—to the grocer and the "health food" shop. The grocer, in many cases, instructs

his roundsmen to mention the popular brands of foods: in this way many orders are secured which otherwise would go to the chemist. The suggestion by your correspondent, as I read it, is that the pharmacist should act in an advisory capacity. One wonders how he would be paid for giving this knowledge.

I am, etc., SCIENTIA (28/12).

## Medicine Stamp Duties Select Committee

SIR,—Every retail chemist knows to what extent his custom has declined owing to the competition of unqualified traders in the sale of drugs and medicines, a process which has been accentuated in recent years. If any pharmacist had been told that it was the chemist who was the interloper he would have been surprised to find it was meant seriously. Yet this is the attitude other dealers seem to take; we have been told several times that the chemist can dispense doctors' prescriptions and is able to sell poisons; leaving out of the question for the moment the fact that he has no sole right to either of these sources of income, we can only assume the inference to be that he should confine himself to these two alone. In other words, unqualified traders would like all our trade except dispensing and the sale of Part I poisons, these being the two things which require an expensive training, involve heavy responsibility, and show little profit. Many chemists consider that destamping would never have taken hold if the wording which says that goods to the value of 1s. shall bear a 3d. stamp had been adhered to, because that really means the retail price is 1s. unstamped and 1s. 3d. stamped. Proof of this contention is afforded by the complaint that chemists can sell sixpenny packs of branded lines unstamped whilst other traders would have to put a three-penny stamp on and would be unable to compete. If unqualified persons cannot sell known, admitted and approved remedies unstamped they have another concession which is equally advantageous, the use of a body name on the label. It has been pointed out that there is a public demand for drugs at popular prices, and it must be met by threepenny and sixpenny sizes; it should be made equally plain that these sizes are available at any chemist's, and practically all kinds of household drugs and medicines can be obtained from him loose in any quantity to suit the customer's pocket. There is one question which I do not remember to have seen raised: if unqualified shopkeepers claim as much right to sell medicines as chemists, are they able to take advantage of the exemption under the Shops Acts and to supply them after hours on early closing days if they exhibit the notice that their shops are open for the sale of medicines, etc.? And if so, how many of them would be prepared to do it?—Faithfully yours,

OUVERT (29/12).

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

### The C.F. List

Mr. G. A. Mallinson, secretary of the National Pharmaceutical Union, asks us to state that Independent Pharmacists Supplies, Ltd., is not yet on the C.F. List.

### Medicine Stamp Duties Select Committee

I enclose a wrapper, with medicine stamp, of La Toja Mud Soap, apropos of Mr. Mallinson's recent statement that he could not recollect the names of any soaps that are stamped. I am under the impression that Packer's Tar Soap and Mackenzie's Arsenical Soap are also stamped.—C. B. D. (16/12).

The *C. & D.* has never spoken a truer word than in the closing sentence of your editorial article "Medicine Stamp Duties Investigation" (December 12, p. 679). Again we have the Statutory Committee exercising disciplinary powers with which we all are in agreement, but why not exercise disciplinary powers on members who act in an unprofessional manner towards other members? Is it not high time that the Charter should be revised? Sooner or later, and the sooner the better, we must have the practice of pharmacy placed upon a sound financial and ethical basis.—L. H. (14/12).



# Dispensing Notes

## A Cinchona Mixture

SIR,—I have some difficulty with the following mixture. The cinchona seems to precipitate. Could you please tell me the correct way to prepare it, as I understand it can be made clear?

Quin. hyd.	...	...	gr. iv.
Quin. sulph.	...	...	gr. viiss.
Ext. cinch. liq.	...	...	℥xl.
Tr. aurant.	...	...	℥xxiv.
Ol. eucalypt.	...	...	℥viiij.
Acid nit.-hyd. dil.	...	...	℥lxxij.
S.V.R.	...	...	℥xx.
Aq. chlorof.	...	ad	℥viiij.

Yours truly,  
J. W. (21/10).

[Cinchotannins, especially when oxidised, are precipitated in acidulated water, although actually the extract is made with dilute acid. Many salts help to precipitate tannin by a salting-out action. The important point is that the alkaloids are all in solution when the mixture is finally acid. Another point about this mixture is that it contains ol. eucalypti in excess of its solubility. Very few essential oils are soluble in water more than ℥j. in ℥ij.—here there is ℥j. in ℥ij. Such a mixture as this would only be improved pharmaceutically by the addition of mucilage of tragacanth. It certainly would not improve the bitter taste, so it might be as well to substitute the eucalyptus oil with an equivalent part of eucalyptol, and so get rid of the insoluble terpenes. The alcohol in the tincture of orange and mxx. of S.V.R. does not count, except as an initial solvent for the eucalyptus oil or eucalyptol. By adding the ext. cinchonae liq. to a relatively large quantity of glycerin, thoroughly mixing, dissolving the eucalyptol in the tincture the S.V.R., mixing with the glycerin-cinchona mixture, afterwards adding a solution of the alkaloids in acid and all the water there is to spare so as to get maximum dilution, a more or less clear mixture could be made.]

## Male Fern and Copper Sulphate Mixtures

SIR,—We should welcome your advice on the best way to dispense the following:—

I				II			
Ext. filic. liq.	...	...	℥ss.	Ext. filic. liq.	...	...	℥ss.
Cupri sulph.	...	...	℥ss.	Cupri sulph.	...	...	℥ss.
Chlorodyn.	...	...	℥ij.	Nucis vom.	...	...	℥ss.
Ol. lini	...	ad	℥viiij.	Ol. lini	...	ad	℥viiij.

Yours faithfully,

UNCERTAIN (18/11).

[The copper sulphate in strong solution is corrosive. Two agents could modify its corrosive power, (a) linseed oil, (b) to a less extent, glycerin. It is doubtful from a therapeutic point of view whether the mixture should be emulsified with the aid of lime water, but that would certainly be an easy method of emulsifying the thoroughly mixed male fern extract and linseed oil. Two methods of dispensing may be adopted: (1) *Non-emulsification*.—The addition of an excipient whereby an emulsion could be formed with milk or dilute starch mucilage at the time of use. To do this the copper sulphate is dissolved in four parts of glycerin. The ext. filicis liq. diluted with a little linseed oil is rubbed down with one drachm of tincture of senega, then with the chlorodyne, then with the balance of the oil. Finally, the copper sulphate in glycerin is gradually added. Well shake the bottle before use; (2) *Emulsification*.—Two ounces of powdered acacia and forty grains of tragacanth would be required for this mixture. The ext. filicis liq. is thoroughly rubbed down with a small quantity of the linseed oil, then the rest of the oil is added, and next the powdered mixed gums are incorporated. The emulsion is then made by the method of using one-fifth of the total volume of the emulsion of hot water all at once. In case the saline copper sulphate upsets the emulsion when added in aqueous solution, it would be well to add ℥j. tincture of senega to the ext. filicis oil mixture before emulsification. After emulsification is complete the chlorodyne is added. As regards prescription No. II, in our opinion the first method of dispensing prescription should not be adopted. Following the lines of No. I emulsification process, a little additional quantity of tragacanth, and a little less acacia should be used to prevent the nux vomica from separating.]

# Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. C. (18/12).—SALARIES IN HOSPITALS.—The salaries paid to hospital dispensers in England are approximately as follows:—Chief pharmacist, begins at £400 and rises to £500 or higher, according to size of hospital; assistant pharmacist, begins at £200 and rises to £350.

K. & S. (18/12).—CHARGE FOR OXYGEN.—This varies to some extent, according to the customer, but the following prices may be taken as a standard:—10 ft., 5s. 9d.; 20 ft., 7s. 6d.; 40 ft., 12s. 9d. In addition, the charge of 1s. per week is usually made as rent of the cylinder and 1s. per week as rent of the fittings. If night attendance is involved it is customary to add 10 per cent to the price for the oxygen.

H. B. (11/12).—LUNG TONIC.—The formula to which you refer is as follows:—

Coltsfoot	..	..	..	1 oz.
Linseed	..	..	..	1 oz.
Horehound	..	..	..	1 oz.
Extract of liquorice	..	..	..	2 oz.
Chlorodyne	..	..	..	10 fl. oz.
Oil of anise	..	..	..	1 fl. dr.
Oxymel of squill	..	..	..	64 fl. oz.
Syrup of poppies (B.P. 1885)	..	..	..	20 fl. oz.
Tincture of capsicum	..	..	..	4 fl. oz.
Tracle	..	..	..	64 fl. oz.
Distilled water, boiling	..	..	..	40 fl. oz.

Dose: 10 to 60 minims.

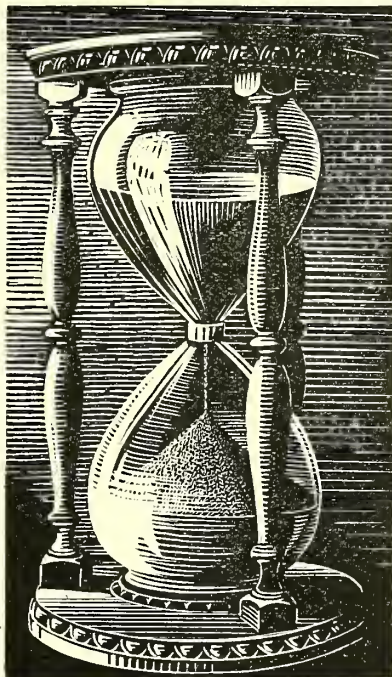
J. D. (21/12).—VETERINARY CHEMIST AS A TITLE.—This matter was the subject of an action in the courts in 1893. In giving judgment Mr. Justice Day said:—"As far as I can see, it is competent for any person, whether he is a pharmaceutical chemist or no chemist at all to publish his views about animal disease and make suggestions as to what he thinks the best mode of treating them. I can see no possible objection to anything of the sort. . . . I am not at all satisfied that because a man happens to be a chemist he is debarred from publishing a book of the kind. . . . Then it is said Mr. Groves may not do what he has done because he describes himself as a veterinary chemist. From the term 'veterinary chemist' I should think a man was meant who laid himself out for the preparation of medicines used for horses, cows, etc. I am not aware that that is a part of veterinary surgery or that that is practising as a veterinary surgeon. It is quite idle to present any argument of the kind. The man is, in my judgment, entitled to call himself a veterinary chemist in that sense, and he is also entitled to publish this book. . . ."

# Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," January 1, 1887

## Heartburn Tablet

The formula for bismuth lozenges, as it appeared in the British Pharmacopoeia of 1864, bears internal evidence that it was intended to represent a preparation that was popular then, and is so still, to some extent, under the name of "Heartburn Tablet." The ingredients down to the oil of cinnamon are exactly what were used to make this preparation, and the dry ingredients were to be boiled with the water until a proper consistence was attained—which is the way to make *tablet*, not *lozenges*. The editors of the 1867 edition changed all this. . . . It may interest some to learn that "Heartburn Tablet" was originally introduced by Dr. Burt, an eminent Edinburgh medical practitioner of some three generations ago. He used to prepare it himself in his kitchen, with the aid of his apprentices—all doctors, even Edinburgh ones, kept apprentices in those days—and it acquired a considerable reputation, chiefly as a remedy for the distressing heartburn of pregnancy, and that notwithstanding (shall we say by reason of?) the high price he charged for it—one guinea per lb. . . . This preparation contains no bismuth, and appears to owe its antacid properties entirely to chalk.



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For fuller particulars consult page 66

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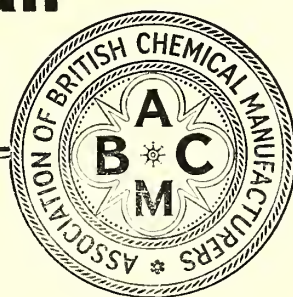
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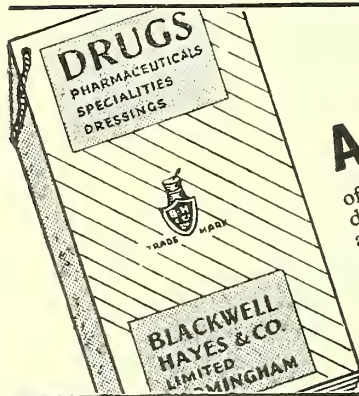
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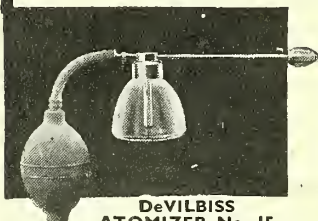
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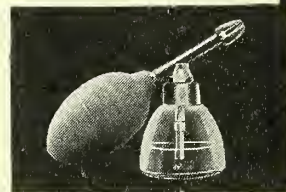
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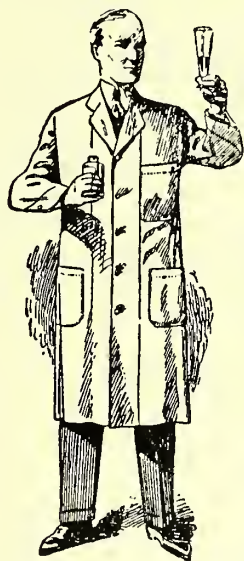
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This Supplement is inserted in every copy of The Chemist & Druggist

JANUARY 2,  
1937

28 ESSEX STREET, LONDON, W.C.2

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(C1) **WEST END.**—Attractive, up-to-date Pharmacy, occupying prominent position; turnover for last financial year, £2,398; gross profit, £1,247; definite and abundant scope for further substantial increase; for sale following death of principal shareholder; price £1,800, but reasonable offers will be considered.

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(C4) **MANCHESTER.**—Good profit-earning business, situated in populous residential area; now doing at the rate of approximately £2,000 per annum, plus N.H.I., which averages between 550 and 600 scripts monthly; rent £68, including excellent house with all conveniences; lease 21 years; price about £1,550.

(C5) **BEDFORDSHIRE TOWN.**—Two businesses, preferably for sale jointly, but separate transactions may be considered; present returns approximately £37 and £27 per week respectively; both rapidly increasing; good living accommodation in one instance, the other premises being lock-up; reasonable prices; further details to genuine enquirers upon application.

(C6) **EASTERN COUNTRY (CATHEDRAL CITY).**—Old-established family and dispensing business with good living accommodation; increasing turnover, which for the present financial year will amount to approximately £1,500; reasonable rental; long lease; price £900 or near offer, including only about £200 for goodwill; excellent opportunity.

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(C13) **MIDDLESEX (NEAR TO NORTH LONDON).**—Good-class family business with up-to-date flat above, occupying main-road position, and situated in growing district; present returns approximately £1,300 per annum, but these figures can be increased materially; no near opposition; price approximately £850, including stock and fixtures £700.

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(C17) **LEICESTER.**—Old-established lock-up pharmacy, occupying prominent position in busy thoroughfare; present returns upwards of £1,500 per annum, with scope for considerable further increase; reasonable rental and purchase price.

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**SEVENOAKS (Residential District).**—A golden opportunity for obtaining a business (Drug Stores); suitable for beginner; full particulars and every investigation invited; no triflers. 200/21, Office of this Paper.

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**CHEMIST** desires to purchase sound business anywhere if prospects are good; living accommodation and scope for Optics preferred; cash available. Please reply in strict confidence to "Chemist," 201/1, Office of this Paper.

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**RUSTINGTON (near Littlehampton).**—New Shops to Let; fast-growing residential area; with or without living accommodation; corner main-road position; meeting immediate demand; excellent opening for Chemist; three left only; rents from £90 p.a., exclusive. Full details, Onslow Estates (Worthing), Ltd., 13 Liverpool Gardens, Worthing.

**NEW Chemist's Shop in Western Suburb** and in fast-developing area, complete with shop front; all fixtures and fittings in burr walnut; living accommodation; reasonable rental or can be purchased. Apply Harris (Contractors), Ltd., 302 Bath Road, Hounslow, Middlesex. Telephone: 2772.

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**TO LET.**—Two excellent shops in very good districts; most suitable for Chemists and Druggists; only one of each trade permitted. Apply L. S. Kear & Co., Estate Office, Watford Road, Harrow.

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**APPLICATIONS** are invited from persons and firms (particularly manufacturers) for permission to be placed on the list of persons and firms from whom the County Supplies Committee may from time to time invite quotations for various kinds of stores, such as printing, bookbinding, motor cartage, first-aid appliances, etc., engineers' tools and stores, ironmongery, metals, hardware, furniture (school and office), soap, paper (various kinds), manufactured stationery, office sundries, textiles, clothing, haberdashery, timber (soft and hard), boot leather and leather goods, brushes for cleaning, chemicals, drugs.

Applications must be made on the official form, copies of which (together with standard conditions of supply) may be obtained from the Manager, County Supplies Department, Cliff Lane, Wakefield, Yorks.

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County Hall, Wakefield.

J. CHARLES McGRATH,  
Clerk of the County Council.



## APPOINTMENTS.

HEREFORDSHIRE GENERAL HOSPITAL,  
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(150 beds).

**A**PPlicants are invited for the post of Pharmacist; candidates must be members of the Pharmaceutical Society. The Federated Superannuation Scheme is in force. Applications, stating age, experience and salary required, and accompanied by not more than three recent testimonials, to be sent to the undersigned by January 11, 1937.

T. W. UPTON,  
Secretary.

## APPRENTICES.

**A**PPRENTICE required, South Kensington; sound Pharmaceutical training given in a high-class Pharmacy; every facility for study. 200/11, Office of this Paper.

## SITUATIONS OPEN.

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**D**UNSTABLE.—Qualified Junior Assistant required for typical Medium- to Good-class Country Pharmacy (London 32 miles); 2 other assistants kept. Please give full particulars as to experience, references and salary required to F. E. Herington, Chemist, Dunstable. Applications not answered within five days respectfully declined.

**L**ONDON.—Unqualified Assistant; capable and accustomed to good-class business; required early January. Tolley & Co., 107 Broadway, Mill Hill, N.W.7.

**L**ONDON, N.—Junior Assistant required for Family Business; must be experienced in Dispensing and Window-dressing and well recommended; state full details of experience, age, height and salary expected; enclose photo if convenient; applications not answered in 7 days respectfully declined. 200/28, Office of this Paper.

**L**ONDON, S.E.1.—Unqualified male Assistant (age not over 25); must be used to working-class business; suitable vacancy for person not intending to qualify; state when can be disengaged; wages £3 per week. 200/15, Office of this Paper.

**S**OUTH COAST.—Qualified Assistant (28-30), possessing first-class Dispensing, Photographic and Toilet Sales experience; able and accustomed to take responsibility. Particulars and photo to 196/4, Office of this Paper.

**A** YOUNG Qualified Assistant. Please send full particulars and state salary expected to A. Anderson, Chemist, 3 The Broadway, Selsdon, Surrey.

**A**SSISTANT (over 30), Unqualified, single, male, for High-class Pharmacy; good Dispenser and Window-dresser. Give full particulars and salary required first letter, Balkwills, Chemists, 106 Old Town Street, Plymouth.

**A**SSISTANT required immediately (lady considered), Dispensing, Counterwork and Window-dressing, in middle-class business, S.W. London; permanency if suitable; full particulars, please. 200/2, Office of this Paper.

**D**ISPENSER required, Chemist-trained, for private Surgery in London; Junior entertained; must be quick and accurate. Particulars of salary, age and references to 200/4, Office of this Paper.

**D**ISPENSER wanted four evenings a week; 6 p.m. to 8 p.m.; must be a quick Dispenser and accustomed to N.H.I. work. Apply, giving age, experience, salary required, to Wm. Fox & Sons, Ltd., 109-111 Bethnal Green Road, London, E.2 (10 minutes from Liverpool Street).

**E**LDERLY Qualified Man for light duties; village 14 miles from London; please state if single or married, age and salary required. Apply 200/29, Office of this Paper.

**J**UNIOR Assistant or Improver required immediately for London; state age, experience and salary required. 200/14, Office of this Paper.

**J**UNIOR Assistant required as soon as possible; efficient and well-trained Salesman; Window-dressing and Dispensing; Photographic knowledge useful; good experience for suitable man. Durbins, Chemists, 12 The Broadway, Wimbledon, S.W.19.

**J**UNIOR, Qualified (male), required immediately for High-class Dispensing Business in Surrey; applications unanswered in 7 days respectfully declined. Full particulars 199/5, Office of this Paper.

**J**UNIOR Unqualified Assistant, male, young, required immediately; capable Dispenser, Counterman and Window-dresser; of smart appearance. Apply personally or by letter to C. R. Jones, 182 King's Road, Chelsea, S.W.

**J**UNIOR Unqualified Assistant required for good-class Pharmacy; must be smart and of good height; permanent. Full particulars in first letter to Bayley's, Chemists, 26-27 Electric Parade, Clacton-on-Sea.

**M**ANAGER, Qualified, wanted early January. Apply, giving full particulars, to Cargills (Chemists) Ltd., 68 Lower Broughton Road, Salford, 7.

### PHARMACY.

**Q**UALIFIED Chemist required; able to take charge of Retail branch; must be a thoroughly capable and experienced man.

Female Assistant required; must have had General Pharmaceutical and Shop experience. Widows and single persons only considered.

Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or officials will disqualify.

**Q**UALIFIED Assistant for January 25; working-class district; N.H.I. Dispensing; one not afraid of work. Also Unqualified Assistant for branch, immediately. Apply, full particulars as to experience, etc., to Bewells' Ltd., 19-21 Pitfield Street, N.1.

**Q**UALIFIED Assistant (male) required. Please give usual particulars, salary and photo if possible to Mr. Collier, Messrs. Whitfield's, 113 Westborough, Scarborough.

## PHOTOGRAPHS, TESTIMONIALS, &c.

When replying to advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. Many of these announcements produce an exceptionally large response and, as can be readily understood, the task of returning photographs, testimonials, &c., is one of some difficulty.

**QUALIFIED** Assistant wanted for Dispensing Counter and usual Shop Routine. Send full particulars and wages required to Venables, Chemist, 260 Upper Tooting Road, London, S.W.17.

**QUALIFIED** Lady Assistant wanted; salary £4 per week and commission; state when free, etc. S. M. Morris, 143 Broadway, W.7.

**QUALIFIED** Lady required for light Counter work and Dispensing; good experience desired and thoroughly reliable. Please state full particulars of experience, age, salary expected, etc., in first letter, enclosing stamped addressed envelope, to "Pharmacist," 77 St. Albans Road, Westbury Park, Bristol.

**REQUIRED** immediately, experienced Young Lady Dispenser for High-class Dispensing Business in the West Country, near Weymouth; apply with full particulars of experience, age, salary required; with snap if available; Hall qualification an advantage. 200/24, Office of this Paper.

**SECRETARY-DISPENSER**; immediately; experienced fully. Apply Dr. B. Mackenzie Hegarty, 30 Woodland Avenue, Luton, stating experience and salary required.

**SMART** Junior Assistant wanted. Apply personally to Wavell & Co., Chemists, 328 Vauxhall Bridge Road, S.W.1.

**TOILET** Assistants required, with good knowledge of up-to-date lines; near London; permanency; Window-dressing experience essential. Write, giving full details, to Box 4262, Frost-Smith Advertising, 64 Finsbury Pavement, E.C.2.

**UNQUALIFIED** Assistant, male, required early in January. Apply with full particulars as to age, experience and salary required to J. Price, 42 Bath Street, Leamington Spa.

**UNQUALIFIED** Assistant (under 35) (male) for brisk Retail and Dispensing; permanency; capable Counterman and Window-dresser essential; good salary offered. B. W. E. Beard, 281 Forest Road, Walthamstow, E.17.

**UNQUALIFIED** Assistant, with Optical qualification, required for High-class Business in Midlands; references must bear fullest investigation; permanency; interview necessary. Full particulars, salary required, age, experience, etc., 199/6, Office of this Paper.

**UNQUALIFIED** Junior, smart, courteous, tactful and gentlemanly, for Retail Counter; intelligent Salesman; Photographic knowledge preferred. Apply in writing, stating age, experience, salary required, Galloways, Photographic Chemists, Victoria Square, Birmingham.

**UNQUALIFIED** Lady Assistant wanted for Dispensing and to make herself generally useful. Apply in first instance by letter only, giving full experience and wages, to Pearson, 63 Lupas Street, S.W.1.

**WANTED** for permanency in first-class Retail and Dispensing Business, Gentlemanly Assistant (25 to 30), Unqualified. Particulars of experience and salary required, enclosing photo if possible, Donald McKinnell, Ltd., Chemists, Northampton.

**WANTED**, Piccadilly district, young Qualified Assistant; good Salesman and Window-dresser; able to be left in sole charge; state experience, age, and salary required, and enclose photo. 200/33, Office of this Paper.

**WANTED**.—Two Lady Assistants, with good experience Counter and Window-dressing, no Dispensing, for Watford and St. Albans. Apply by letter, stating age, experience and wages required, to The United Medicine Co., 111 Leavesden Road, Watford.

### WHOLESALE.

**ASSISTANT** wanted for London Wholesale Chemical Firm; with good knowledge of Technical and Fine Chemical Trade and Administrative experience. State age, experience, salary, 293/597, Office of this Paper.

**ASSISTANT WORKS CHEMIST** (M.P.S., B.Sc., or A.I.C.) required, Liverpool district; must have good training and analytical experience; knowledge of Human and Veterinary Physiology and Therapeutics an advantage; applicants should give fullest details of experience, age, references, salary required; if possible enclose photograph (which will be returned); applications treated confidentially. 198/2, Office of this Paper.

**GIRL** Packer (16-18) required by Wholesale Chemists in City; experience in Retail Packing. Write, giving age, experience and wages required, P.C.B. 228/1, Office of this Paper.

**LADY** with experience in the Manufacture of Toilet and Beauty Preparations required to assist in the management of smaller concern doing high-class trade; knowledge of Office Routine desirable; factory is situated in Central London district; good prospects for suitable person. Please address full particulars P.C.B. 228/15, Office of this Paper.

**MAN** (under 30), with varied experience of the Drug Trade, wanted as Assistant to the Secretary of Matthews Laboratories, Ltd., Clifton, Bristol. Please give full particulars and send photo, which will be returned, addressed to Mr. Clement Matthews, as above.

**MANUFACTURING** Chemists require smart Salesmen to take over existing connexions; good opportunity for live men; part expenses and liberal commission; territories open: (1) Scotland, (2) Birmingham area, (3) Wales, (4) West of England. Full particulars to 293/602, Office of this Paper.

**PROMINENT** Company of Manufacturing Chemists require a first-class Salesman for Lancashire and Cheshire; must be fully competent to take over important position. Write in confidence, stating experience, age, salary required, to 293/604, Office of this Paper. Our staff are aware of this announcement.

**REPRESENTATIVES** required for Lincolnshire, Derbyshire, Rutland and Nottinghamshire; North Wales; Cornwall, Devon and Dorset; Northumberland, Cumberland, Durham and Westmorland; must be of outstanding Sales ability and having longstanding connexion among Chemists and Druggists for selling universally advertised goods on exceptionally sound commission basis; car owners preferred. Write, stating full particulars, including type of goods at present carried, if any. 293/600, Office of this Paper.

**SMITH & CO.**, 132 Borough, London, S.E.1, are prepared to consider applications for experienced Representative with established connexion in South-East England. Apply, in confidence, to Sales Manager, with full particulars, age, experience, districts covered, recent photograph, and state whether car owner.

**YOUNG** Qualified Chemist required by Proprietary Medicine Manufacturers to train for administration post; good prospects for a keen man. Apply, with full particulars, to 293/603, Office of this Paper.

### COLONIAL, INDIAN AND FOREIGN

**FOR CAPETOWN**.—Qualified Pharmaceutical Chemist as Manager, leading Retail Business; also first-class Retail experience; preferably abstainer; with Photographic knowledge; 3 years' agreement; progressive salary, commencing £400, rising to £600; send photo, with details record, copies testimonials; state age, whether single or married. Davis & Soper, Ltd., 54 St. Mary Axe, London, E.C.3.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require Partners, Agents or Assistants or wish to Sell their Businesses, an Advertisement in this Supplement placed in every copy of "The Chemist and Druggist" should be the readiest means of helping them to attain their object. The tariff for such announcements is given on the front page of this Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.



## SITUATIONS WANTED.

### RETAIL (HOME).

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A.A.**—LOCUM or permanency (full- or part-time); Unregistered; Dispensing, Counter, Windows. Harries, 31 Prince's Square, S.E.11.

**A.A.**—PHARMACIST, young, conscientious, energetic; free evenings and week-ends; London. "M.P.S.," 112 Fielding Road, W.4.

**A.**—ASSISTANT; tall; abstainer; all branches; unregistered; recommended by — England, Esq., Romford; free shortly. MacLellan, c/o Coles, Pharmacists, Weymouth.

**A** QUALIFIED Man (29), single, well educated, with wide experience, wants change. 198/4, Office of this Paper.

**A** QUALIFIED MANAGER (27) requires temporary or permanent position; London only; Company and Private experience; first-class Window-dresser and Salesman; highest references. Green, 2 Troutbeck Road, New Cross Gate, S.E.14.

**A**CTIVE, elderly man; experienced; whole, part time or locum; London. "M.," 40 Montholme Road, S.W.11.

**A**N experienced Dispenser and Assistant, tall, single, desires permanency in good-class business, London; also rough knowledge of Pharmacy; interview arranged. "Ciba," 40 Woodfield Drive, Gidea Park, Romford, Essex.

**A**SSISTANT, good all-round; Dispensing, Counter, etc.; 16 years last reference; Unqualified; London area. Stevens, 46 Maybury Gardens, Willesden Green, N.W.10.

**A**SSISTANT, West End experience; disengaged January 4; good reference; locum or permanency; London only. Write to M. G. Birch, 4 Melrose Gardens, Hammersmith, W.6.

**A**SSISTANT (27), Unqualified; all-round experience Dispensing, Counter, Window-dressing; London preferred. "Advertiser," 44 Turneville Road, W.14.

**A**TTRACTIVE Windows Again.—Take out that Christmas window! Let us dress it with a smart Winter Show of Drugs or Toilets. 'Phone ADVance 2113. Write The Specialists, 18 Wyatt Road, E.7.

**B**IRMINGHAM DISTRICT.—Middle-aged; exceptional experience; permanency, temporary or part time; not registered; disengaged. Newell, 41 Grantham Road, Sparkbrook, Birmingham.

**C**HEMIST, experienced, excellent Prescriber, disengaged January 4, desires management; locum; London or Provinces; reasonable salary. "Chemist," 46 Buckley Road, Brondesbury, N.W.6.

**E**VENINGS.—Qualified man, experienced in all branches, including Optics, offers services in London. "M.P.S.," 252 Barry Road, S.E.22.

**E**XPERIENCED Assistant (45), tall, Unregistered; courteous and tactful Salesman; quick and careful Dispenser; Photo, Windows, Agricultural; well recommended; permanency or locum; disengaged. Haigh, 34 Bulwer Street, Shepherd's Bush, W.12.

**E**XPERIENCED Qualified Locum; England and Scotland; single; abstainer; terms moderate for winter engagement. James Lees, Beechwood, New Cumnock, Ayrshire.

**E**XPERIENCED Qualified Man (49), fully trustworthy, desires management Retail Business; discretion required; £4 10s.; disengaged February. Monomark BM/HPGV, W.C.1.

**F**AMILY, Agricultural and Dispensing Chemist desires management where the attributes necessary for success in the above type of business are required; free five weeks from engagement. 198/5, Office of this Paper.

**F**REE January, M.P.S. (age 25), seeks London permanency; City experience and Wholesale; reliable Dispenser. Dispenser, 19 St. Martin's Road, Stockwell, S.W.9.

**L**ADY Dispenser (Hall), experienced, requires situation with Doctor; Secretarial duties; S.W. or Richmond-Kingston district preferred. Jeacock, 10 Cintra Park, S.E.19. LIV. 2866.

**L**ADY Dispenser (22), Hall Certificate, experience in First-aid and Book-keeping, seeks post with Doctor or Chemist or in a Hospital. Apply Eleanor O'Donovan, Union Hall, Leap, County Cork, Ireland.

**M.P.S.**, PT. I, F.S.M.C. (24½), desires change to position where Optical experience may be gained; all-round experience, keen, conscientious; free one month; Midlands preferred. 200/13, Office of this Paper.

**M.P.S.** (52), active, good all-round experience, desires part-time work; minimum £2 per week. Hart, 6 Chubworthy Street, S.E.14.

**M.P.S.** (40); London or Midlands; locum; Manager, Superintendent; very moderate wage; experienced all branches; successful Prescriber; interview desired. 196/1, Office of this Paper.

**P**ART TIME.—Qualified; free 4.30 p.m.; capable, trustworthy; good West-End experience; highest references; late duty considered 200/16, Office of this Paper.

**P**HARMACIST-ENGINEER (35), Qualified, desires progressive position, either or both capacities, in or near London; conscientious and capable service; interview Wednesday afternoon. Leonard, 50 Kennington Road, Lambeth.

**Q**UALIFIED Locum (28); 11 years' experience Hospital and Retail; reliable; trustworthy; disengaged January 2. Robinson, 87A High Street, Bromley, Kent.

**Q**UALIFIED Manager (29), now Managing in S.W. London; business being sold; highly recommended; reliable and trustworthy. Telephone Clissold 3541.

**Q**UALIFIED (24) desires post; keen, capable, conscientious, trustworthy; all-round experience; good references. "Chemist," 58 Beechgrove Road, Newcastle-on-Tyne.

**Q**UALIFIED (24), single, requires situation; Private and Company experience; 2½ years Manager. "T.," 17 Westminster Road, Whitehall, Bristol.

## NAMES AND ADDRESSES

When sending advertisements for any of the columns of this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not adhered to and delay and disappointment ensue. Strict attention to this detail will be appreciated.

**REQUIRED**, permanency; unregistered; with first-class experience Dispensing, Counter, Window-dressing, Ordering, Book-keeping; West-End and high-class Provincial Pharmacies; capable of managing; highest references; would live in; married (26); London, Home or Eastern Counties preferred; free one month; interview essential. 200/26, Office of this Paper.

### WHOLESALE.

**ADVERTISER**, with 20 years' experience with Patents, Drugs and Sundries, desires progressive position with Wholesale House, with possibility of taking charge, as Checker or Stock-keeper; excellent references. 198/3, Office of this Paper.

**M.P.S.** (36), married, 10 years own business, Retail and Wholesale, London and Provincial; seeks to Represent in North Wales and Cheshire an established house; personality and a born Salesman; Welsh-speaking; good knowledge of the Medical Profession; two brothers medical men in North Wales; free one month after engagement; own car; very healthy and active; abstainer; every investigation invited; only firms of repute need apply. 200/1, Office of this Paper.

**REPRESENTATIVE** requires additional Toilet Lines; expenses and commission basis; covering South England, West England, South Wales, Derby, Yorks, Notts, Staffs; 10 years' experience; first-class connexion Stores and Chemists; own car. P.C.B. 228/8, Office of this Paper.

**SMART** Young Representative, at present calling on Chemists in the South-West Counties, seeks change; approx. 1,000 accounts; sound connexion. 292/585, Office of this Paper.

**W. D. CASTLE**, for some years Representative in London and Suburbs for well-known Toilet and Perfumery houses, is open for engagement with house of repute; fidelity bond; interview appreciated. 20 Romeyn Road, S.W.16.

**YOUNG** Man seeks progressive situation; 4 years' experience in Manufacturing High-grade Cosmetics, Hair Lotions, etc. 199/8, Office of this Paper.

### FOR SALE.

(Articles to the value of £5-£50.)

**FOR SALE**, 3 Plate-glass and Mahogany Showcases, 6 ft. 6 in. and 3 ft. 6 in., and one 6-ft. Plate-glass Counter Case and two small Cases to stand on counter. All offers to Cussons Sons & Co., Norwich House, 13 Southampton Street, Holborn, W.C.1.

**SMALL** Cash Register; modern "National" model; adds cash total; little used; reasonable. Write P. Winn, 27 Essex Road, E.10.

### MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**CHEMISTS' FITTINGS**.—New and Second-hand Drug Runs, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shopfitters and Shop Front Builders, 175/9, Old Street, London, E.C.1.

### PRICE LISTS, TRADE CIRCULARS, SAMPLES, AND PRINTED MATTER

can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**£50/£100.**—SEVERAL sets of second-hand and shop-soiled Fittings recently removed from re-equipped Pharmacies; send requirements or call. PHILIP JOSEPHS & SONS, LTD., 90/2 St. John Street, Clerkenwell, E.C.1. Telephone: Clerkenwell 4111/2. "Pharmacy Fitters for Over a Century."

**TREBLE'S** for New and Second-hand Fittings, Alterations, Shop Fronts, Glass Cases, Dispensing Screens, Counters, Drawers, Service Trays, Window Fittings, Wall Cases; send your requirements. 549 Lea Bridge Road, Leyton, London, E.10. Phone: LEY 2370.

**£?—COMPLETE CHEMIST FITTINGS** at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting. Signs and modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

### EXCHANGE COLUMN.

2d. per word, minimum 2s. (Box No., 1s. extra.)

### FOR DISPOSAL

(Articles up to the value of £5.)

**GLASS** Counter Bins; 6 ft. 6½ in. by 20½ ins. by 3 ins. high; 27 compartments; adjustable; complete with chromium clips; bargain, £2 5s. Nugent, Cardigan.

## THE SUPPLY OF SUPPLEMENTS

On receipt of addressed Post Office

Wrappers (not more than six at a time)

stamped 1d. the Chemist and Druggist

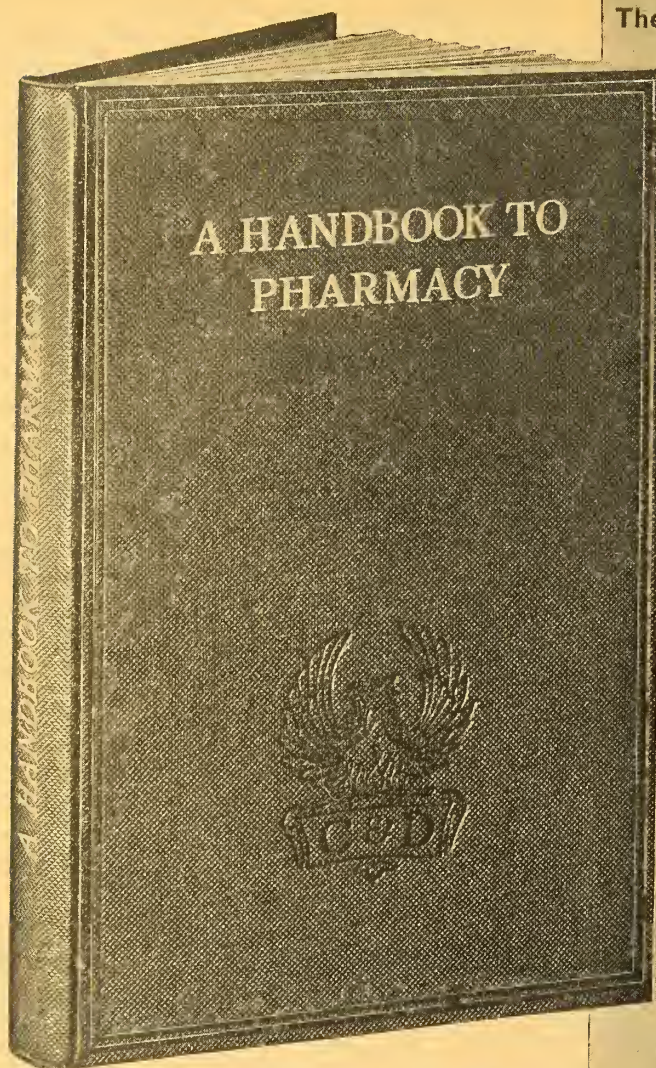
Supplement will be forwarded without cost.

LOOSE STAMPS WILL NOT BE ACCEPTED

If wrappers bear a halfpenny stamp only, Postal

delivery may be delayed.





Price **5/-**  
5/4 post free

### A Handbook to Pharmacy

This book, just published, has been written by Mr. William Kirkby, M.Sc., Ph.C. It gives concise, accurate and complete information for professional and commercial pharmacists, authorised sellers of poisons and students of pharmacy.

It will be found essential for use in the laboratory—a good companion in the dispensing department and a reliable textbook for past, present and future students.

Your usual wholesaler can supply or you can secure a copy by return of post by completing the attached order form and posting to :

**THE CHEMIST AND DRUGGIST**  
28 ESSEX STREET, LONDON, W.C.2

#### The Contents include:—

1932 British Pharmacopoeia  
Inorganic Chemicals—Organic Chemicals—  
Vegetable and other Drugs—Principal Constituents and Posology—Active Principles: Vegetable and Animal—Sera, Toxins and Vaccines—Official Volatile Oils—Official Fats and Oils—Official Waxes and Soaps—Galenical Preparations—Appendices.  
NON-OFFICIAL MATERIA MEDICA—NON-OFFICIAL VOLATILE OILS—NON-OFFICIAL FATTY OILS—PHARMACEUTICAL INCOMPATIBILITY—PRESCRIPTIONS—VOCABULARY OF PHARMACEUTICAL NAMES—WEIGHTS AND MEASURES—SPECIFIC GRAVITY TABLES—ALCOHOL TABLES—SOLUBILITY TABLES—ATOMIC WEIGHTS—THERMOMETRY—CHEMICAL AND PHYSICAL LAWS—ELECTRICAL UNITS—BAROMETRY—POLARIMETRY—VISCOSITY—SOME DATA IN HUMAN PHYSIOLOGY—BACTERIOLOGY—REAGENTS AND STAINS FOR VEGETABLE MICROSCOPY—ENDOCRINOLOGY—POISONS AND POISONING—NUTRITIONAL FACTORS—VITAMINS—POISON REGULATIONS—A SUMMARY OF THE POISONS RULES—POISONS—DANGEROUS DRUGS—MEMORANDA OF BUSINESS KNOWLEDGE—CONTROL OF THE BUSINESS BY MEANS OF BOOK-KEEPING—BUSINESS TERMS—AVERAGE WEIGHTS AND HEIGHTS.

TO THE PUBLISHER

### THE CHEMIST AND DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C.2

Please forward me a copy/copies of 'A HANDBOOK TO PHARMACY' for which I enclose remittance value.....herewith

AFFIX SLIP LABEL

NAME.....

ADDRESS.....



CHEMICALS OF QUALITY

Monsanto

## New Year 1937

"... The real problem at the moment before all civilized nations is not any difficulty in technical service or technical production, but the wise use and distribution of the natural and synthetic products which science has put at our disposal in such abundant measure."

Prof. J. C. PHILIP, O.B.E., D.Sc., F.R.S.

BRITISH ASSOCIATION, BLACKPOOL, 10th SEPTEMBER, 1936.

**MONSANTO CHEMICALS LIMITED.**

Victoria Station House, London, S.W.1,  
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# For Sore Throats— 3 GOOD FORMULAE



## TONSILITIS AND SORE THROAT TABLETS

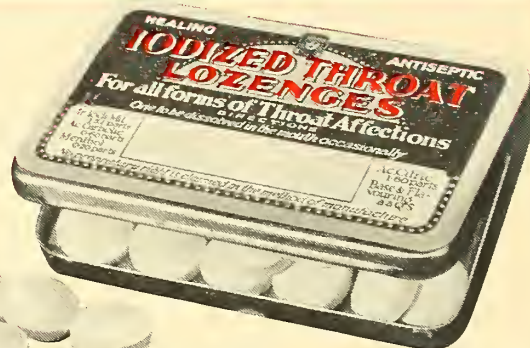
Ac. Tannic, Ex. Krameriae, Ac. Carbol  
Menthol, Ext. Liquorice.

Bottles of 50, cartoned, **7/-** per dozen.

## FORMAMINT TABLETS

Bottles of 50, cartoned,  
**5/9** per dozen.

For further particulars & Prices  
write to:—



## IODISED THROAT TABLETS

Packed in tins of 24, 48 or bottles of 50,  
**3/9, 5/-** and **5/9** per dozen.



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**BRIGHTON**